

Schools, Technology, and Leadership

Seminar on School Technology Leadership
University of Malaya

March 2012

Jayson W. Richardson & John B. Nash
University of Kentucky

Center for the Advanced Study of Technology Leadership in
Education (CASTLE)



<http://bit.ly/stlmalaya>

about our backchannel

**Say hi
to your
neighbors!**

60 59 58 57 56 55 54 53 52 51

50 49 48 47 46 45 44 43 42 41

40 39 38 37 36 35 34 33 32 31

30 29 28 27 26 25 24 23 22 21

20 19 18 17 16 15 14 13 12 11

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Reflection

Question

Concern

Plea

Reflection

Question

Concern

Plea

Reflection
Question

Concern

Plea

Reflection
Question
Concern
Plea

< Reflection >

JUNE 2011 ATLANTIC MAGAZINE

EMAIL | PRINT

The Failure of American Schools

Who better to lead an educational revolution than Joel Klein, the prosecutor who took on the system, the nation's largest, Klein learned a few painful lessons of his own—about feckless politicians, recalcitrant unions, mediocre teachers, and other enduring obstacles to school reform.

By JOEL KLEIN

Recommend

6K

**THE
DEMO
REPORT**Energy s
growth f

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Taking on the





Why Obama's
Presidency Has
Already Begun



And Joe Klein
On Why Bush's
Is Already Over



Holiday Movies:
The Good, the Bad
And the Oscar Bait

TIME

How To Fix America's Schools

Michelle Rhee is the
head of Washington,
D.C., schools. Her battle
against bad teachers has
earned her admirers
and enemies—and
could transform
public education

BY ANANDA BOPLEY





WAITING_{FOR} SUPERMAN

Malaysia

56% reading literacy

41% mathematical proficiency

57% science proficiency

Average scientific literacy

Malaysia

56% reading literacy

41% mathematical proficiency

57% science proficiency

Average scientific literacy

Malaysia

56% reading literacy

41% mathematical proficiency

57% science proficiency

Average scientific literacy

Malaysia

56% reading literacy

41% mathematical proficiency

57% science proficiency

Average scientific literacy

Malaysia

56% reading literacy

41% mathematical proficiency

57% science proficiency

Average scientific literacy

BUT

Higher than lowest OECD country



Australia 1971
Austria 1961
Belgium 1961
Canada 1961
Czech Republic 1995
Denmark 1961
Finland 1969
France 1961
Germany 1961
Greece 1961
Hungary 1996
Iceland 1961
Ireland 1961
Japan 1964

Korea (South) 1996
Luxemburg 1961
Mexico 1994
Netherlands 1961
New Zealand 1973
Norway 1961
Portugal 1961
Spain 1961
Sweden 1961
Switzerland 1961
Turkey 1961
United Kingdom 1961
United States 1961



Higher than lowest OECD country

166=	130	University of Sussex	UK	54	44	49	62	87	80	58.0
168=	161	University of Lausanne	Switzerland	46	43	57	67	88	80	57.4
168=	143	Nanjing University	China	76	59	41	42	50	17	57.4
168=	104	Saint-Petersburg State	Russia	83	88	85	34	46	88	57.4

**UNIVERSITY OF MALAY RANKS 180
IN TOP WORLD UNIVERSITIES**

174=	192=	University of Bologna	Italy	82	62	34	34	27	29	56.9
174=	173	KTH, Royal Institute of Technology	Sweden	58	45	49	46	83	98	56.9
174=	216	University of Tsukuba	Japan	59	46	77	45	23	36	56.9
177=	195	University of Leuven	Belgium	47	36	99	37	59	56	56.7
177=	200=	University of Athens	Greece	46	44	65	76	0	91	56.7
179=	127=	Texas Tech University	US	66	64	34	72	30	38	56.6

180	230	University of Malaya	Malaysia	60	68	68	21	72	65	56.5
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181	154	Indian Institute of Technology Delhi	India	68	81	46	48	15	13	56.4
182	218	Rheinisch-Westfälische Technische Hochschule Aachen	Germany	49	88	75	30	50	66	56.3
183	151	Rutgers, The State University of New Jersey	US	69	32	43	57	61	28	56.2
184	207	University of Karlsruhe	Germany	47	84	73	33	49	81	56.1
185	258	University of Gothenburg	Sweden	49	26	63	62	65	66	55.8
186=	180=	University of Colorado at Boulder	US	54	20	53	87	36	20	55.6
186=	166=	University of Göttingen	Germany	64	21	63	48	40	49	55.6
188	186=	University of Canterbury	New Zealand	57	89	27	39	99	82	55.2
189	182	Macquarie University	Australia	61	77	20	43	86	100	54.9
190	150	National Autonomous University of Mexico	Mexico	68	81	57	21	35	15	54.8

we're decent at “education”

how's the backchannel?

< Question >

what if “education” isn’t what kids need?

what if:

education \neq creativity

what if:

education \neq mentoring

what if:

education \neq inspiration

what if:

education \neq curiosity

what if:

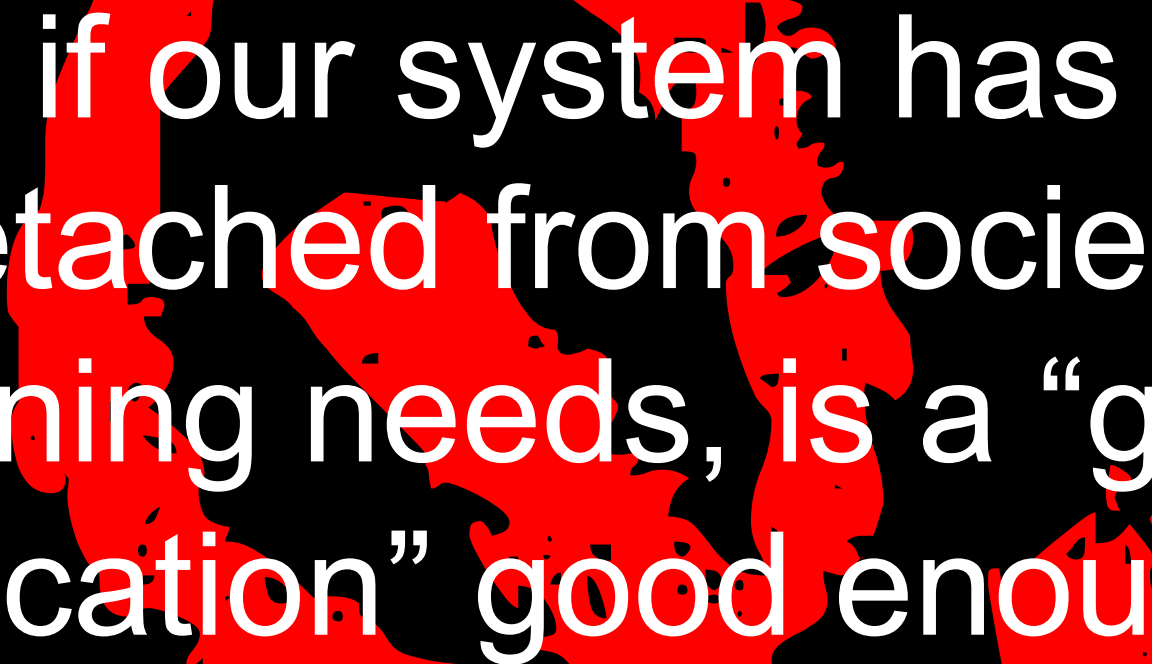
education \neq entrepreneurialism

what if:

education \neq good jobs

what if:

education \neq learning



if our system has
detached from societal
learning needs, is a “good
education” good enough?

[pause]

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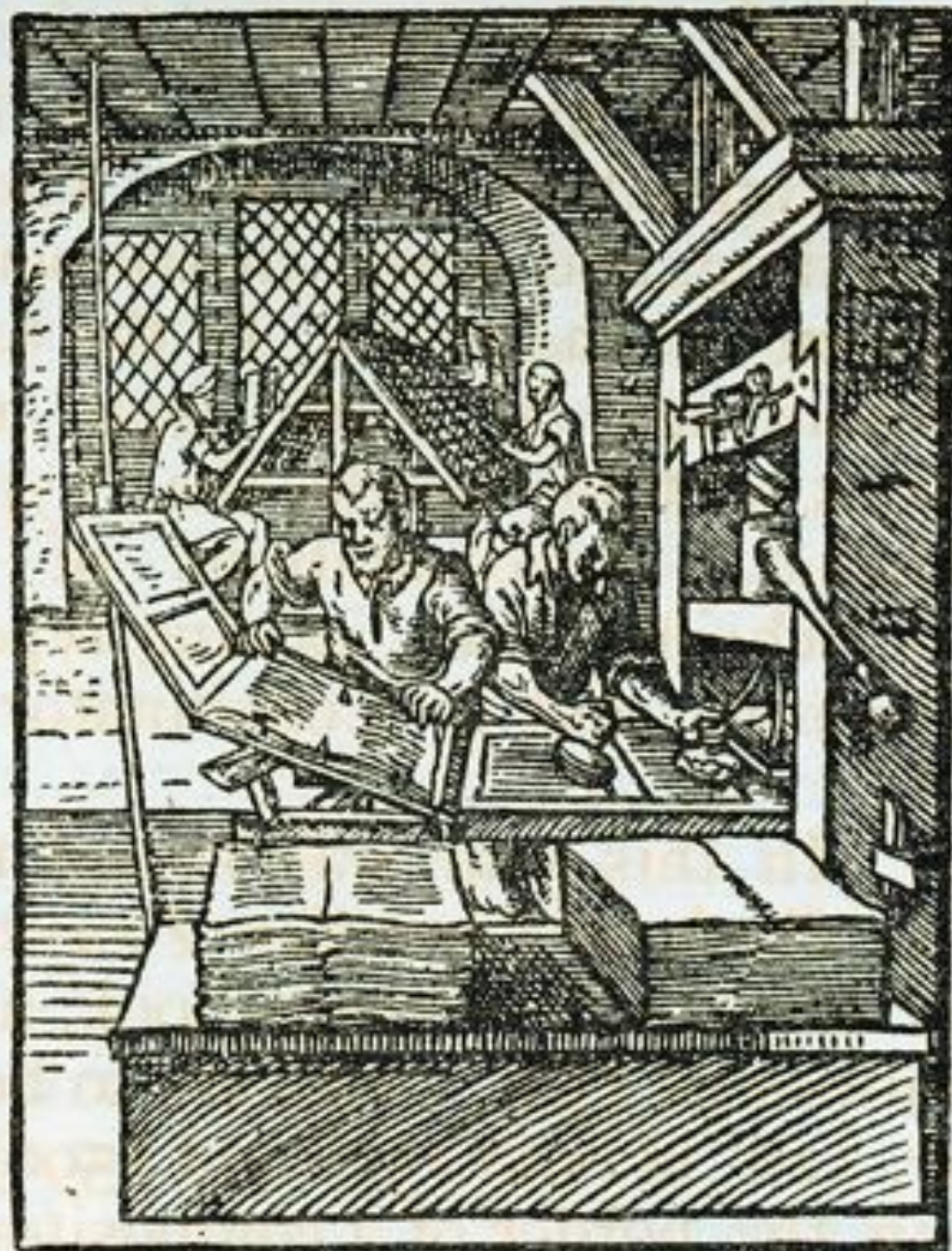
10 9 8 7 6 5 4 3 2 1

< Concerns >



happens

**New
information
landscape**



Growing up assuming you can publish whatever
you want to say, to whoever you want to say it, is
going to make people different - Russell Davies





**WEB 2.0 "It's not an audience,
it's a community"**

**We are
hyper-
connected**

CASTLE

SCOTT MCLEOD, J.D., Ph.D.
Iowa State University

Associate Professor &
Coordinator, Educational
Administration Program
Director, UCEA Center for
the Advanced Study of
Technology Leadership
in Education (CASTLE)
Associate Director,
Communications &
Marketing, UCEA

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Skype: dr.scott.mcleod

dangerouslyirrelevant.org
scottmcleod.net
schooltechleadership.org

<http://tinyurl.com/mcleodtwittersurvey>

What's happening?

140

Latest! Just left a L-O-N-G response to a critic of @christchewen's nomination for ISTE keynote [#iste10](http://bit.ly/58e6CH) 1 day ago

@mcleod/pln

Following: 112

[View list page >](#)



kjarrett Explore.org - moving, powerful, inspirational cultural and educational films and photos <http://is.gd/5caqd>

less than 20 seconds ago from iPhone to MCS-Tech!



Larryferlazzo Holidays On Display from the Smithsonian <http://tinyurl.com/ytw5hjn>

2 minutes ago from Seismic



Larryferlazzo My Best Posts & Articles About Building Parent Engagement in Schools — 2009 <http://tinyurl.com/y3qk0u8>

5 minutes ago from Seismic



NMHS_Principal RT @TechnologyToday: 5 Best Wiki Tools, resources & comparison chart: <http://bit.ly/7NGrhW>

10 minutes ago from TweetDeck



ransomtech @smeech Then it's official then! We deal with the present and plan for the future.

11 minutes ago from TweetDeck in reply to smeech



Larryferlazzo For #followfriday @JasonFlom @englishraven @ddeubel @kalinagoenglish @barbsaka @Teachakidd



mcleod

2,870 tweets

2,307

4,608

209

following followers liked

Blog-fm

A. a way to broadcast music on Twitter

Home

@mcleod

Direct Messages

82

Favorites

Retweets

What do you think of the new tweet feature? Send feedback!



Saved Searches

#ucea09

Lists

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@mcleodtech

@mcleodfed-leadership

@mcleodeducation

@mcleodflora

Jayson Richardson
Edit My Profile

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Events

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Photos

See More

Friends Online

Cade Bennett Gentry

Joan McField

Paul Beatty

All women

Katie Carter

Paul Brink

Tara Lufkin

See All

News Feed

Top Story Most Recent

What's on your mind?



Candice Kane is now friends with Eric Draper and Georgene Tedlock.

12 minutes ago



Knoxland Kicks off University of Kentucky's homecoming weekend with one blue day at Knoxville. Free general admission for UK students, alumni and faculty and activities for all visitors! Join us as we celebrate homecoming weekend and help us raise money for UK's Diverse Blue fundraiser to benefit UK's Pediatric Oncology Unit.



Blue Day

Friday, October 22, 2010 at Knoxville

Homecoming Blue Day

10 minutes ago · Comment · Like · Share · RSVP to this event

3 people like this.

Write a comment...



Renovated Ladies Fundraiser for the Boys & Girls Club of Tucson.
Tickets are \$200.

<http://www.bogartytucson.com/>

Renovated Ladies - Event

Friday, October 23, 2010 at 6:00pm

Tucson Convention Center, Tucson, AZ

10 minutes ago · Comment · Like · Share · RSVP to this event

20 people like this.

View all comments



Katherine McQuinn Love that you're doing a fundraiser, but are you planning on going to Tucson for an AFFORDABLE show?

10 minutes ago · Like



Treston Lewis Do you think there will be a full set or just a couple of songs?

10 minutes ago · Like

Write a comment...



Angie Rice Edwards "Each day can be a new beginning to embrace God's grace. To forget about the past...our short comings, our failures, our wounds, our excesses... and embrace, lean in, and look forward to what lies ahead."

10 minutes ago · Comment · Like

3 people like this.

Events

See All

What are you planning?

Richard Parker's birthday · See All

Spend

See All

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Welcome to Classroom20.com, the social network for those interested in [Web 2.0 and collaborative technologies](#) in education. We encourage you to [sign up](#) to participate in the great discussions here, to receive event notifications, and to find and connect with colleagues.

Classroom 2.0 is a free, community-supported network. We especially hope that those who are "beginners" will find this a supportive community and a comfortable place to start being part of the digital dialog. If you feel that you are a beginner and want some extra help, please [click here to join the Beginner Group](#) as soon as you've registered.

Because of spammers, we have to approve all memberships here (it makes it easier if you fill out your profile). While your membership is pending you are still welcome to peruse the site or attend any events! Once approved, you can introduce yourself to

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31 minutes ago

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[Heather Davis](#) replied to [Jeffrey Thomas's](#) discussion

1 hour ago

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["toadie1951@gmail.com email for Heather"](#)



[Leno Marcia](#) added 47 discussions

2 hours ago

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If you generally think of the Internet as a place to "look up stuff" you're missing the best part

[pause]

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OR DIE





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ROCKING HORSE CHART 11
ROCKING HORSE CHART 12
ROCKING HORSE CHART 13
ROCKING HORSE CHART 14

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Re-imagine

Software User Interface Design

Visual Design

Visual Design

User Interface Design for All

Design Theory

Design Theory

Design Theory

Type Selective

Type Selective

Type Selective

Type Selective

Type Selective

Type Selective

Type Selective

Swiss Style Design

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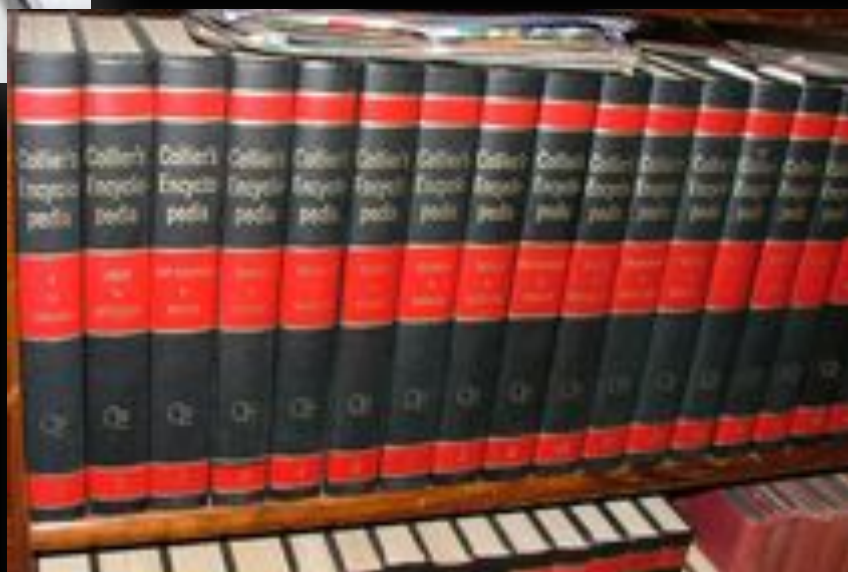
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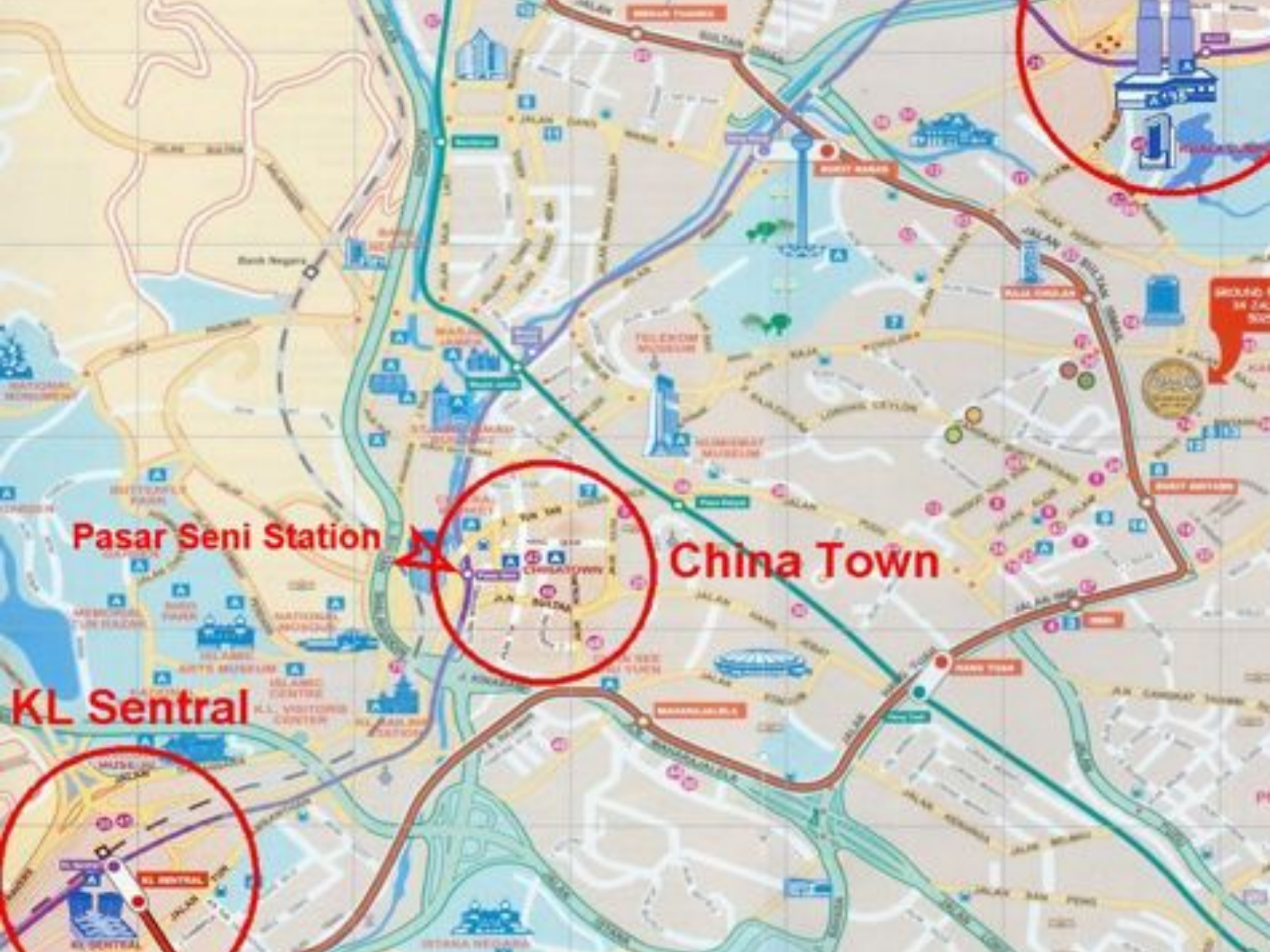


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ORBITZ



A screenshot of the Malaysia Airlines website. The header features the Malaysia Airlines logo and the text "EVERYDAY Low Fares" in large, bold letters. Below this, it says "+ 1,000,000 seats NOW RM 0" and "Book early. Book online. No refunds. Fly 5-star!". The main content area includes a "Book A Flight" section with a search form and a "Book Flights" button. There is also a "WELCOME!" message and a "Book Now!" button. The footer contains links for "Home", "About Us", "Contact Us", and "Privacy Policy".









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Price

Min - Max

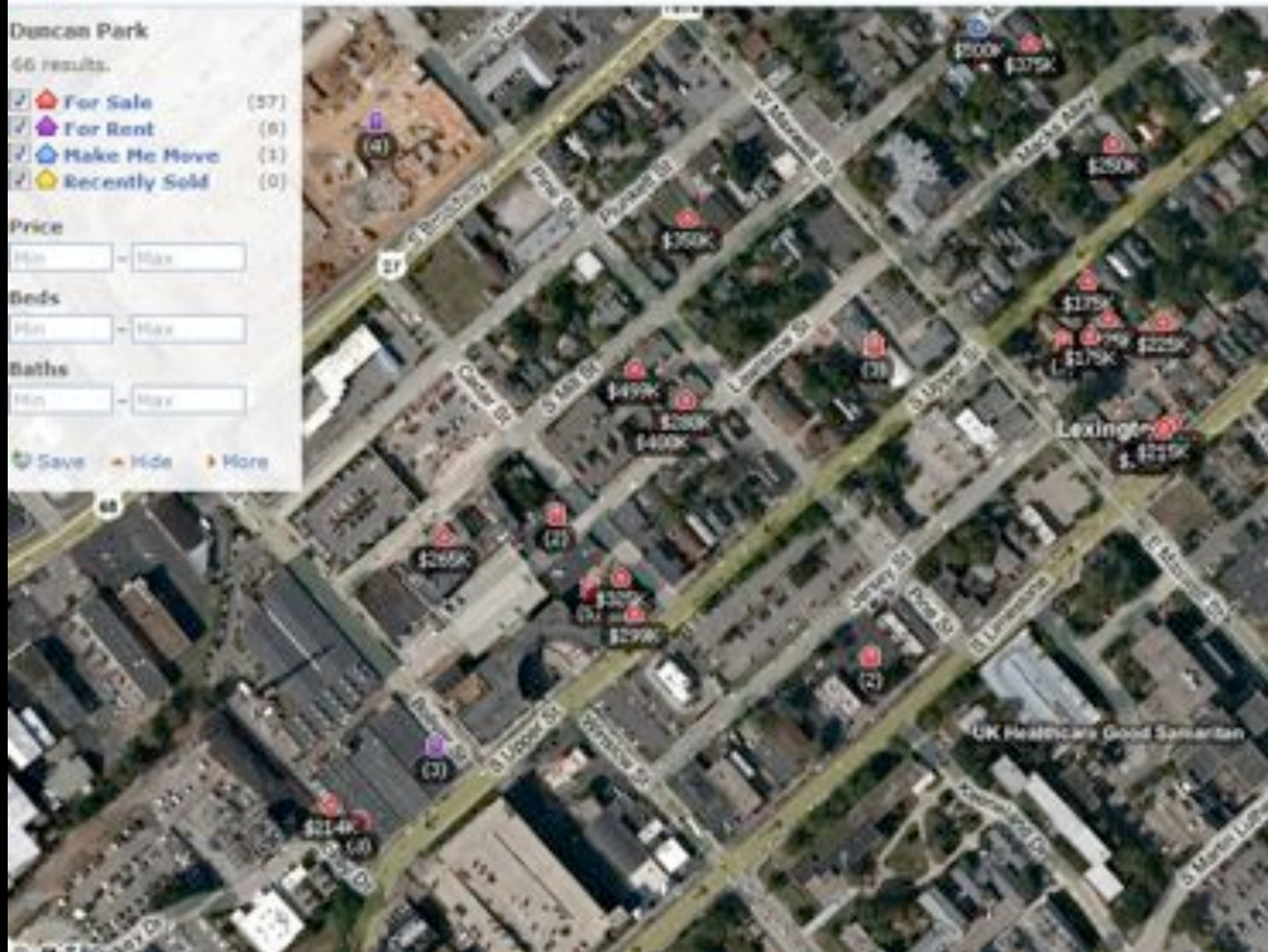
Beds

Min - Max

Baths

Min - Max

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خدمة الشعب بنزاهة وشرف







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8.01 Physics I: Classical Mechanics

As taught in: Fall 1999



Professor Lewin puts his life on the line in [Lecture 11](#) by demonstrating his faith in the Conservation of Mechanical Energy.

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Level:

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Instructors:

Prof. Walter Lewin

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Course Highlights

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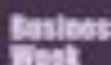
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OCW



is happening
everywhere



is happening
~~everywhere~~



is happening
everywhere
almost

[pause]

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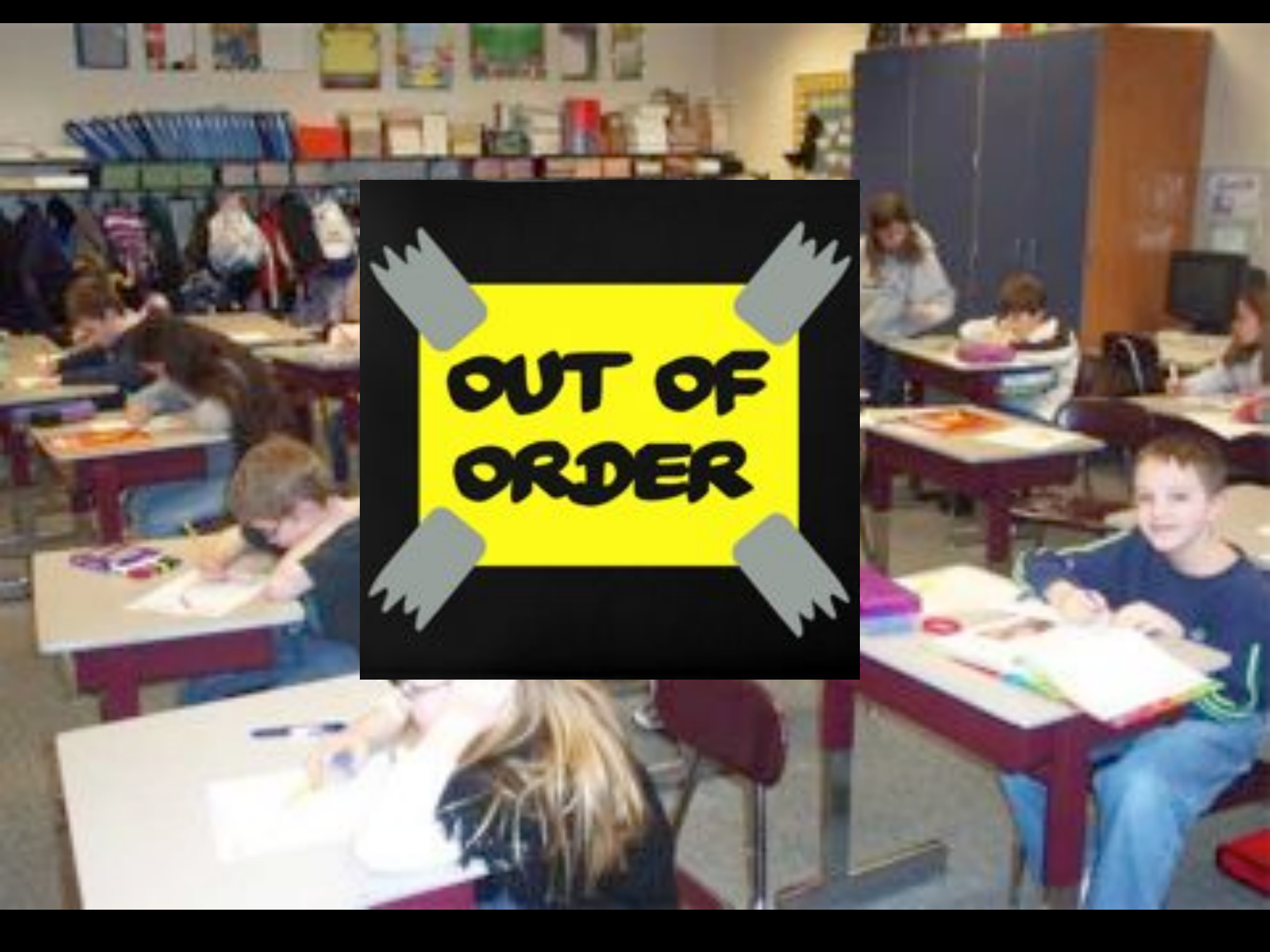
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**OUT OF
ORDER**



CHANGE
OR DIE

1952: Opened
1982: 300 E/E
2011: Closed



1975: Shanghai





Can someone
overseas do it
cheaper?

Can a computer
do it faster?

UPDATED AND EXPANDED



The World Is Flat

A BRIEF HISTORY OF
THE TWENTY-FIRST CENTURY

Thomas L. Friedman

"No company today, no nation, how large or how global, can survive flat enough or top-heavy up to half. . . . Wikinomics reveals the real future: open—the art and science of mass collaboration—where companies quit up to the planet. It is the important book." —*vt. St. Lukes, 2006, Princeton & Georgia*



WIKINOMICS

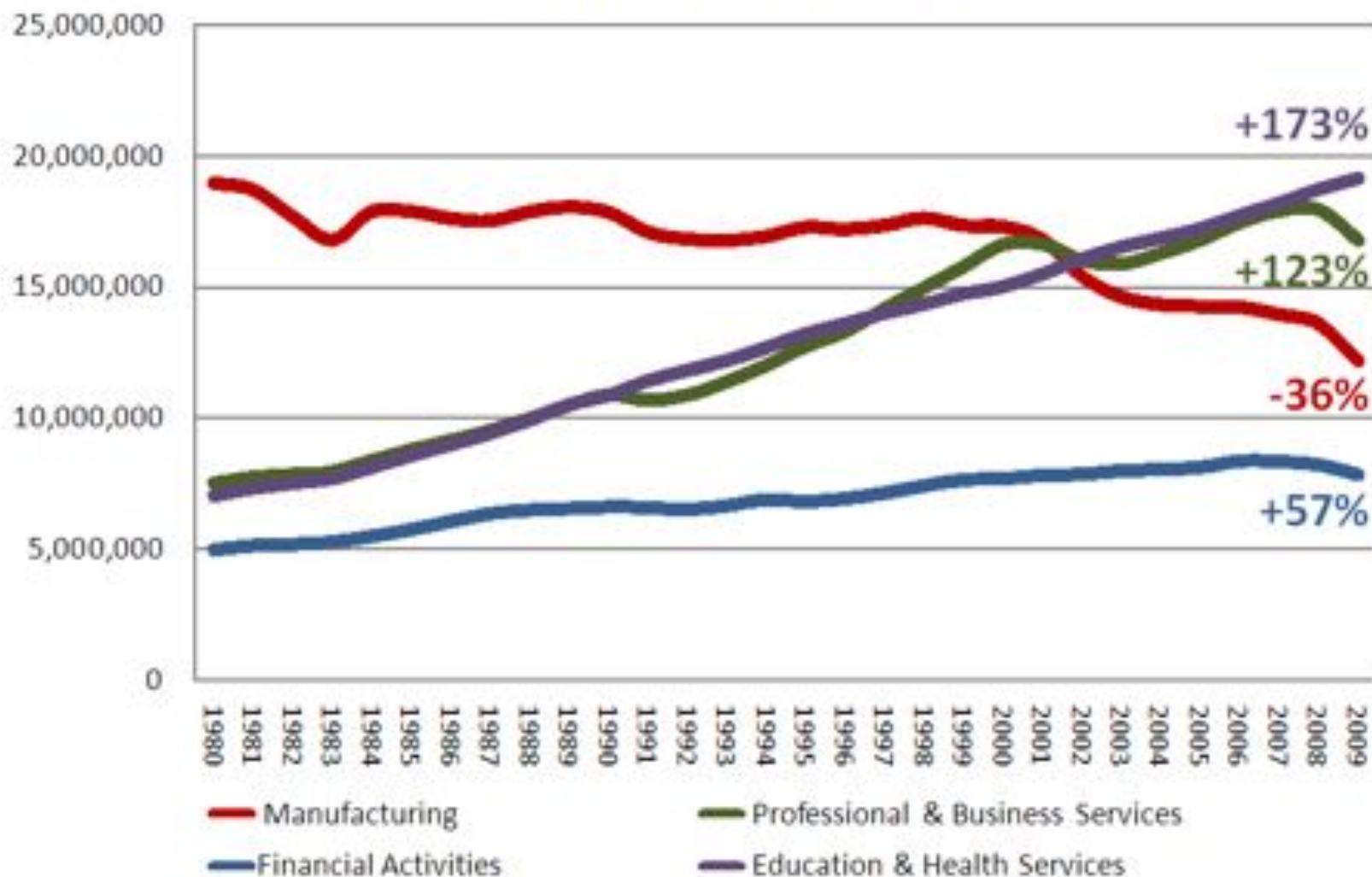
*How Mass Collaboration
Changes Everything*

Don Tapscott

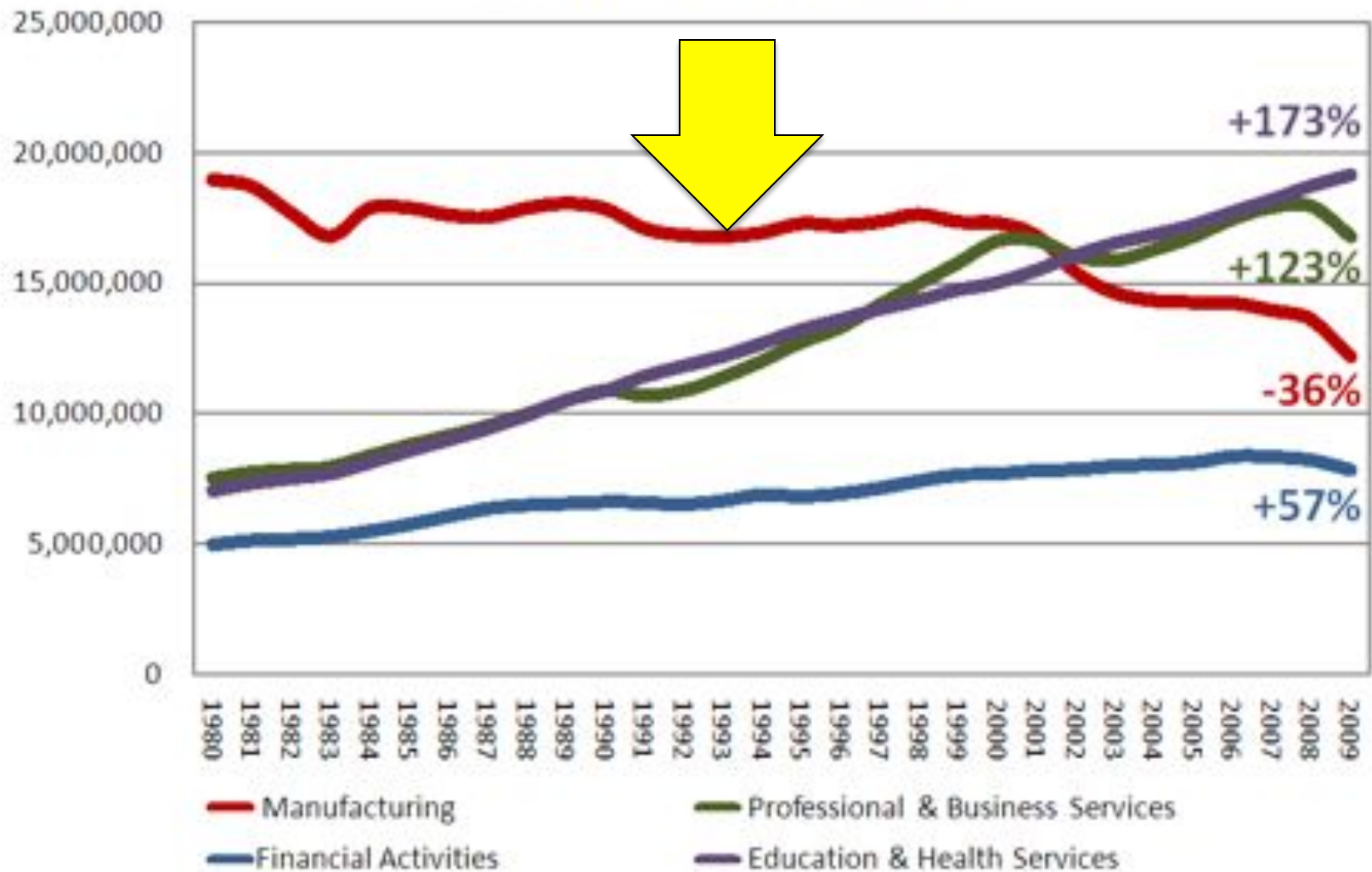
Bestselling Author of The Digital Economy

and Anthony D. Williams

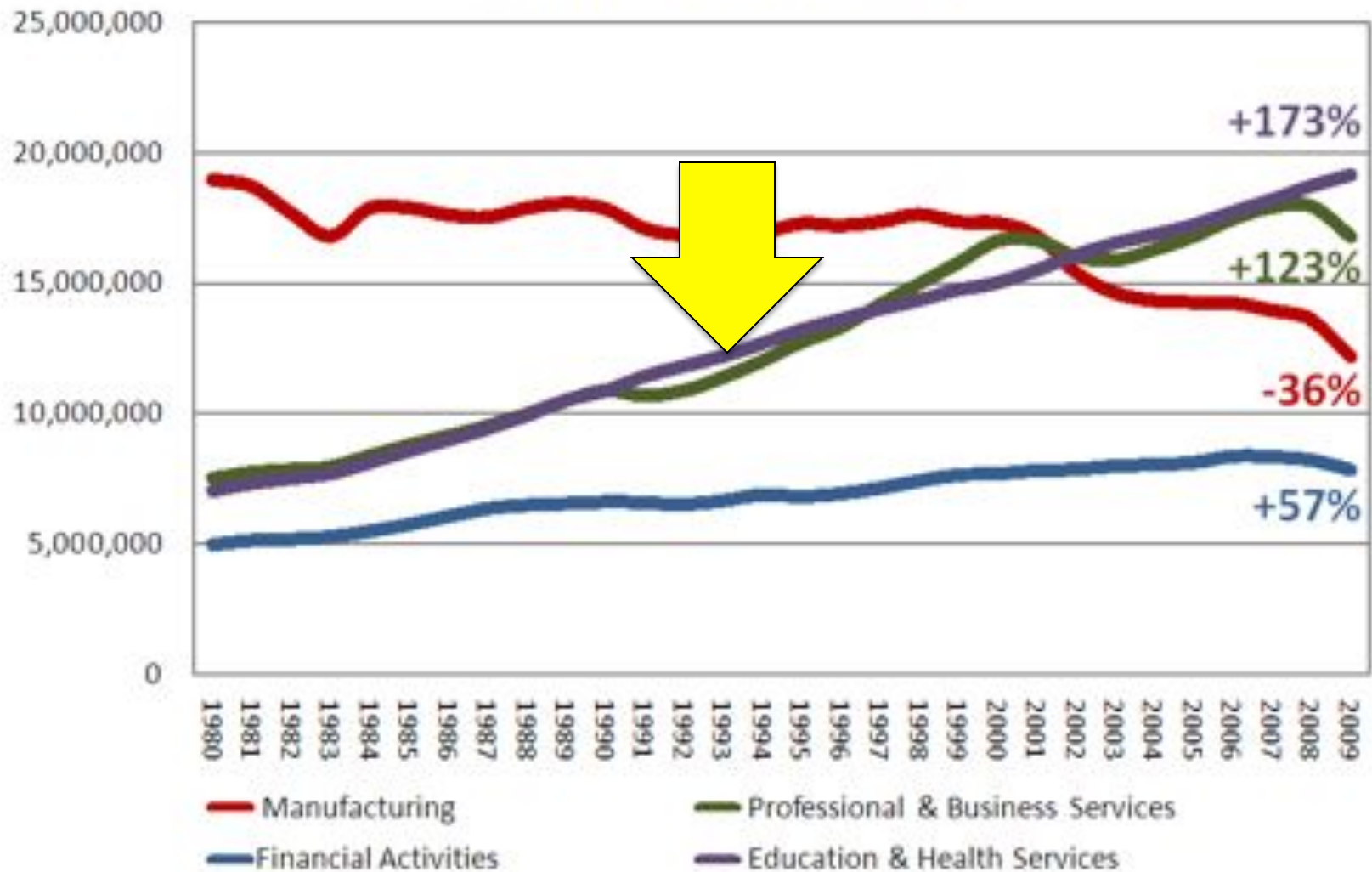
EMPLOYMENT BY SECTOR United States, 1980 to 2009



EMPLOYMENT BY SECTOR United States, 1980 to 2009



EMPLOYMENT BY SECTOR United States, 1980 to 2009



EMPLOYMENT BY SECTOR United States, 1980 to 2009

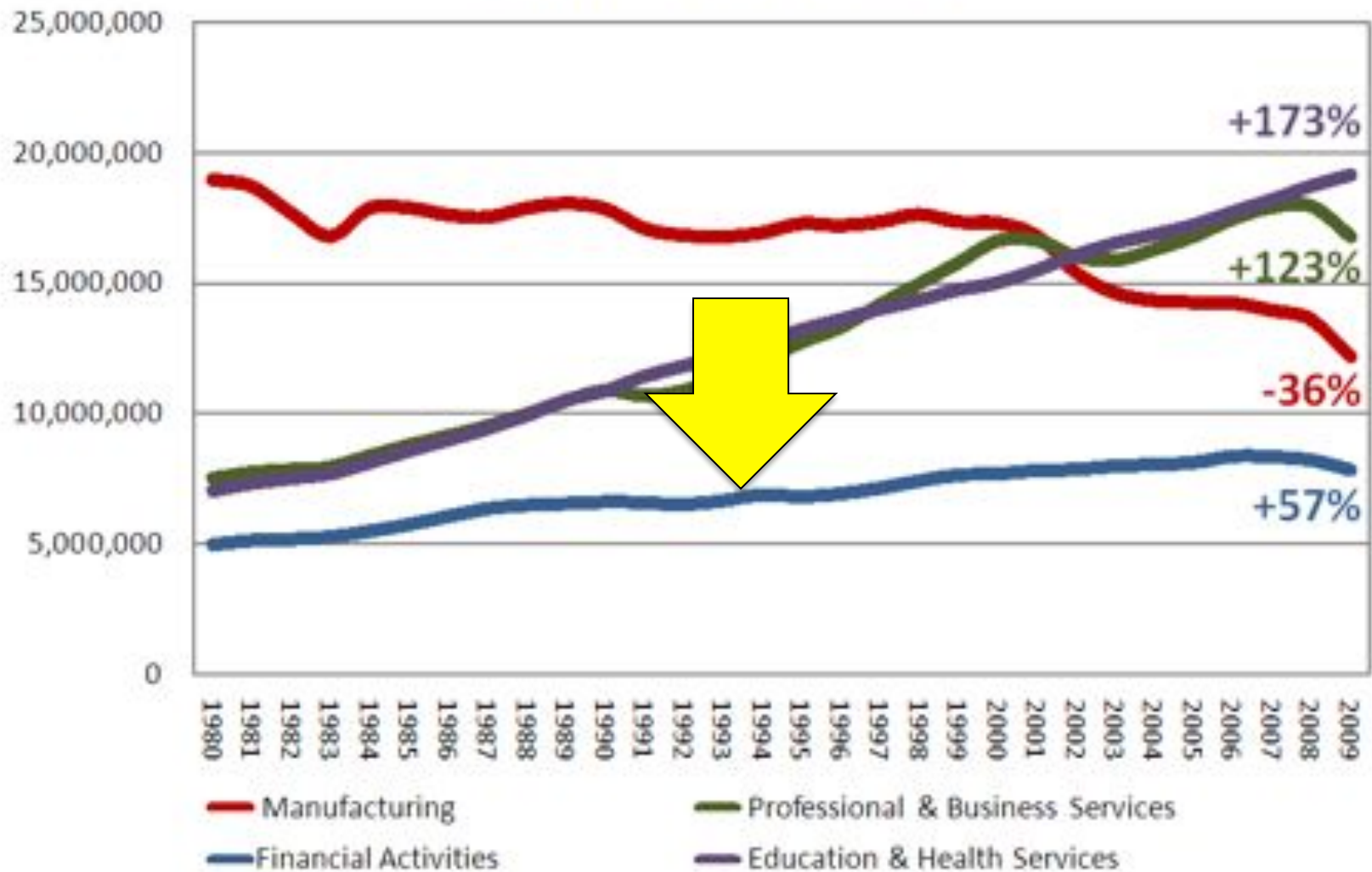
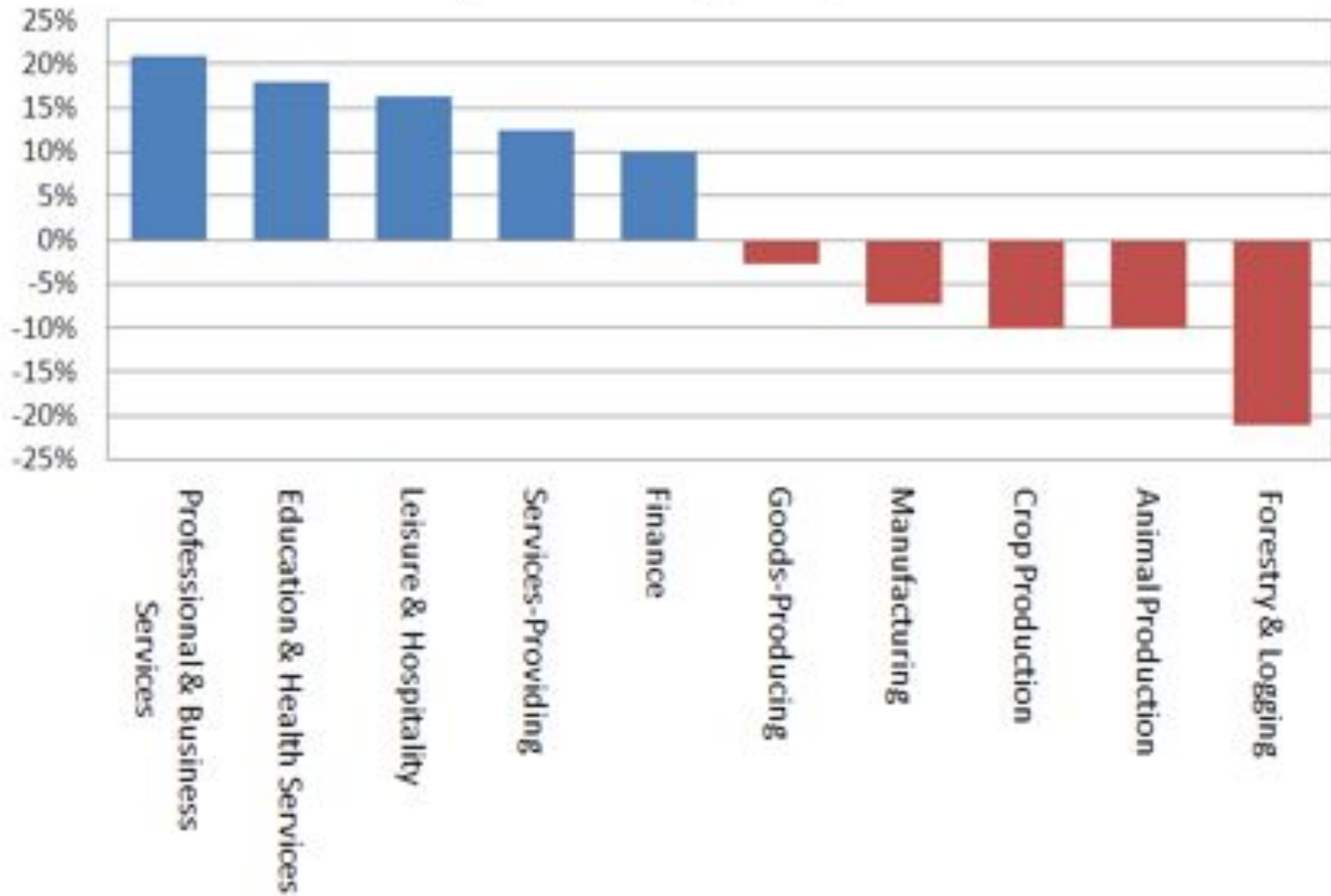


Table 1.8 Structure of Production by Industry of Origin, Malaysia, 1971–2003 (% of GDP)

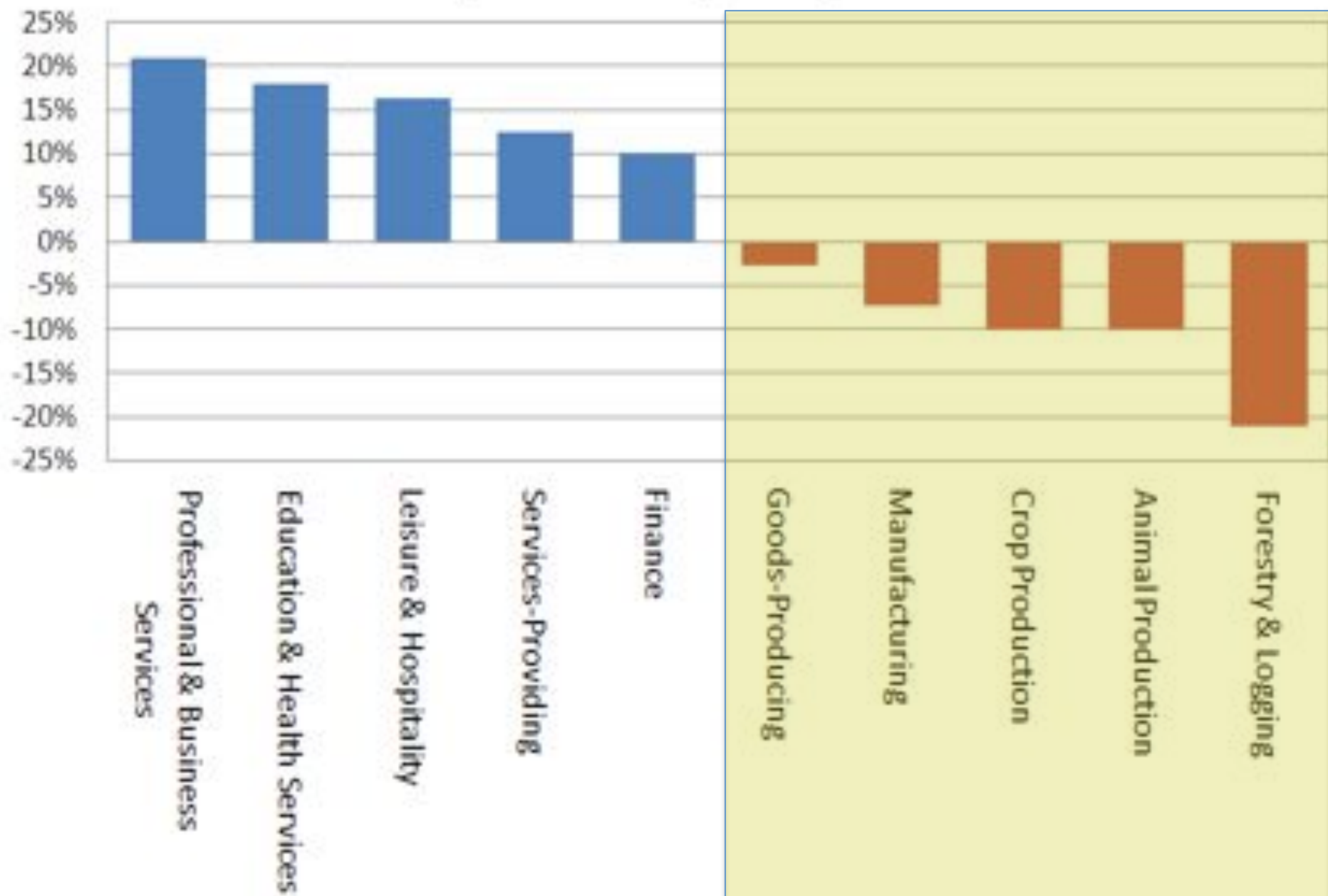
Sector	1970	1975	1980	1985	1990	1995	2000	2003
Agriculture, forestry, livestock, and fishing	26.7	24.5	21.0	19.1	16.3	10.3	8.9	8.7
Mining and quarrying	16.5	12.2	12.1	12.5	9.4	8.2	7.3	7.2
Manufacturing	12.2	15.3	17.2	17.3	24.6	27.1	31.9	30.8
Construction	2.1	2.4	2.7	3.2	3.5	4.4	3.3	3.2
Electricity, gas, and water	2.9	2.9	3.6	3.7	2.7	3.5	3.9	4.1
Transport, storage, and	7.1	7.0	7.4	7.5	6.7	7.4	8.0	8.6
Wholesale and retail trade, hotels and restaurants	5.9	7.9	9.2	10.3	13.2	15.2	14.8	14.3
Finance, insurance, real estate, and business services	7.3	7.6	7.1	7.7	8.2	10.4	12.7	15.1
Government services	8.2	8.6	9.0	10.7	8.8	7.1	6.8	7.4
Other services	6.1	6.9	6.8	6.8	7.2	7.7	7.6	8.0
(-) Imputed bank service charges	0.9	1.2	1.8	3.2	4.4	5.3	7.5	9.8
(+) Import duties	5.9	4.8	5.6	4.6	3.7	4.1	2.2	2.2

Source of data: Malaysia, Economic Planning Unit, five-year plans, various years.

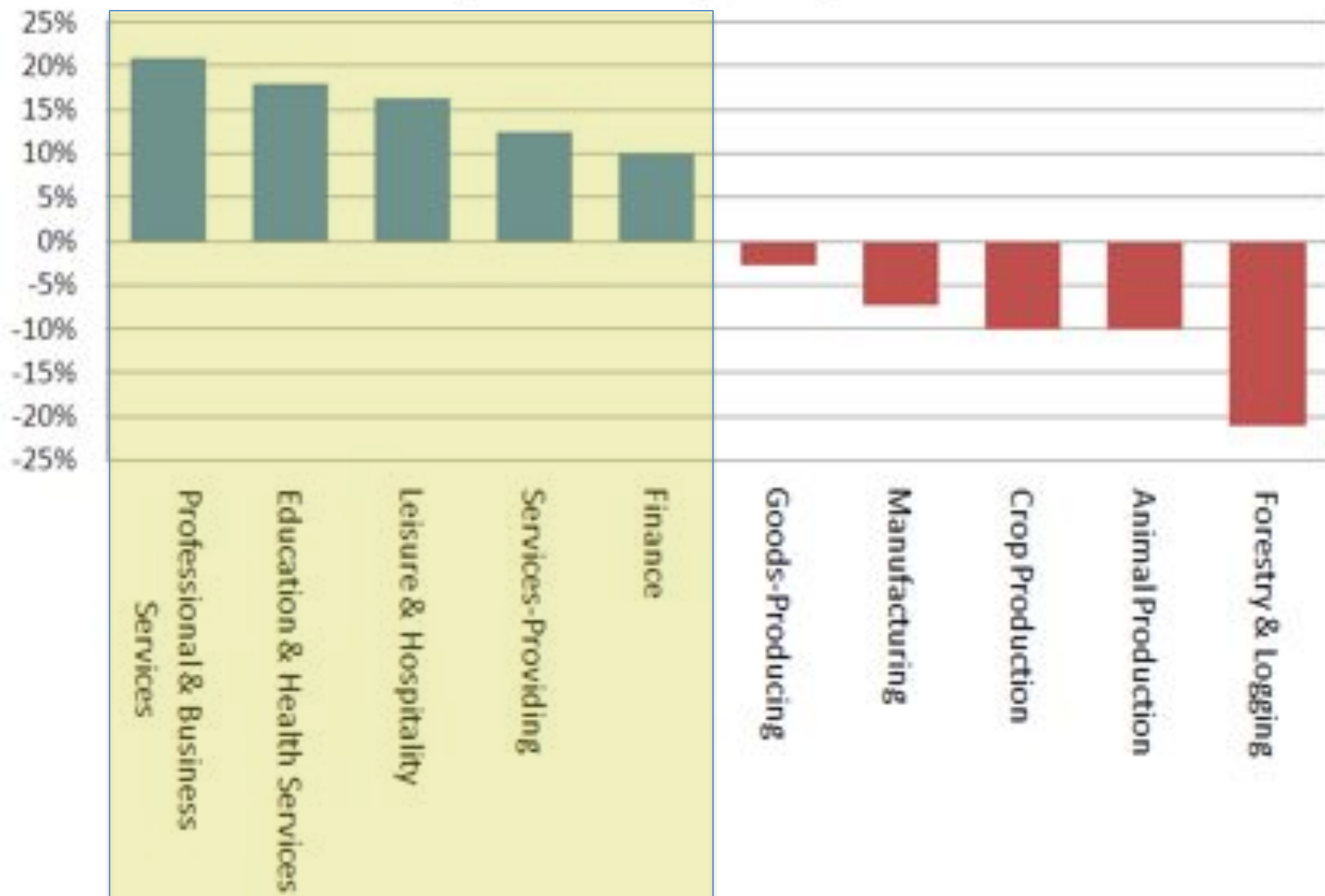
Kentucky Workforce Projections, 2006-2016



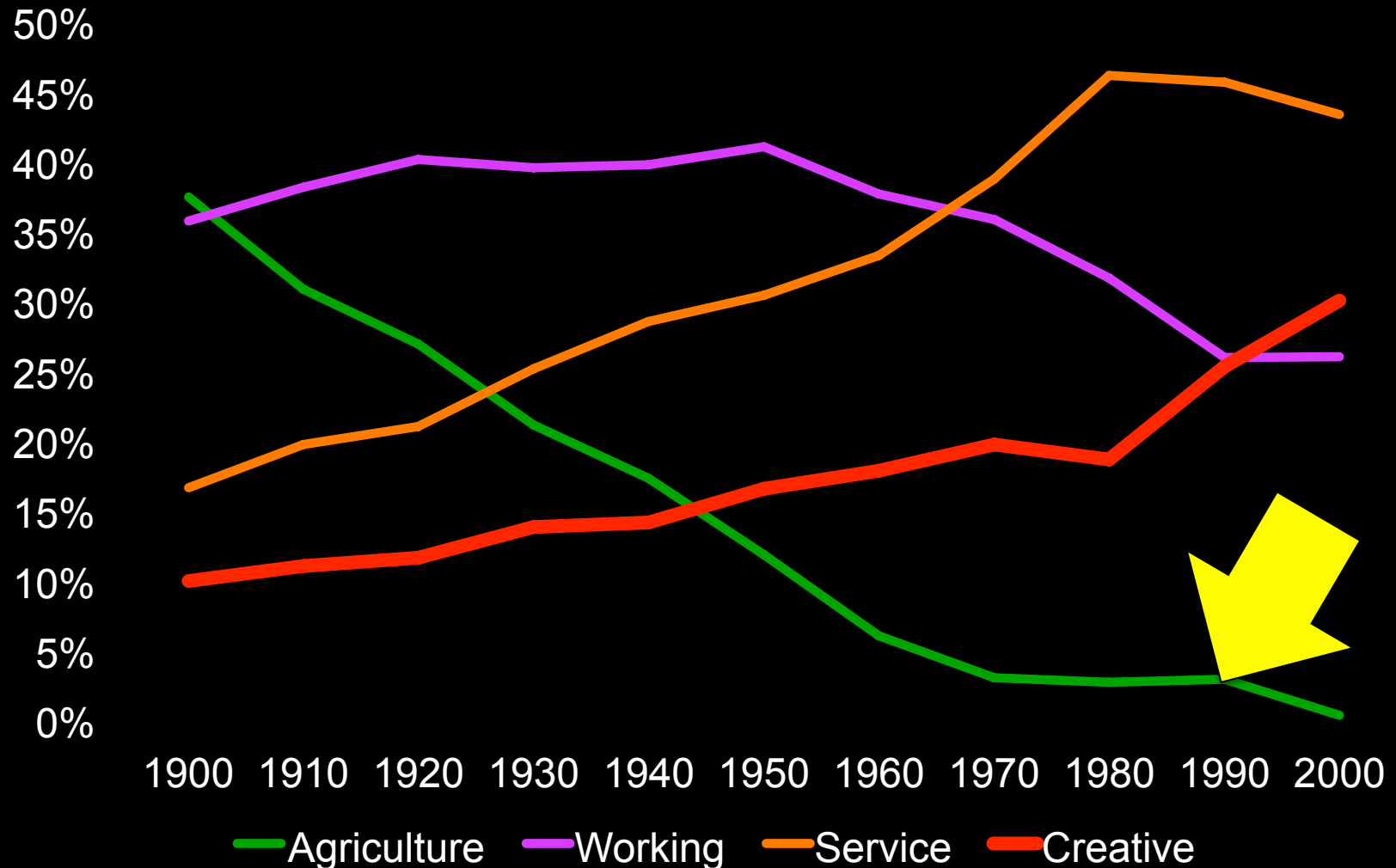
Kentucky Workforce Projections, 2006-2016



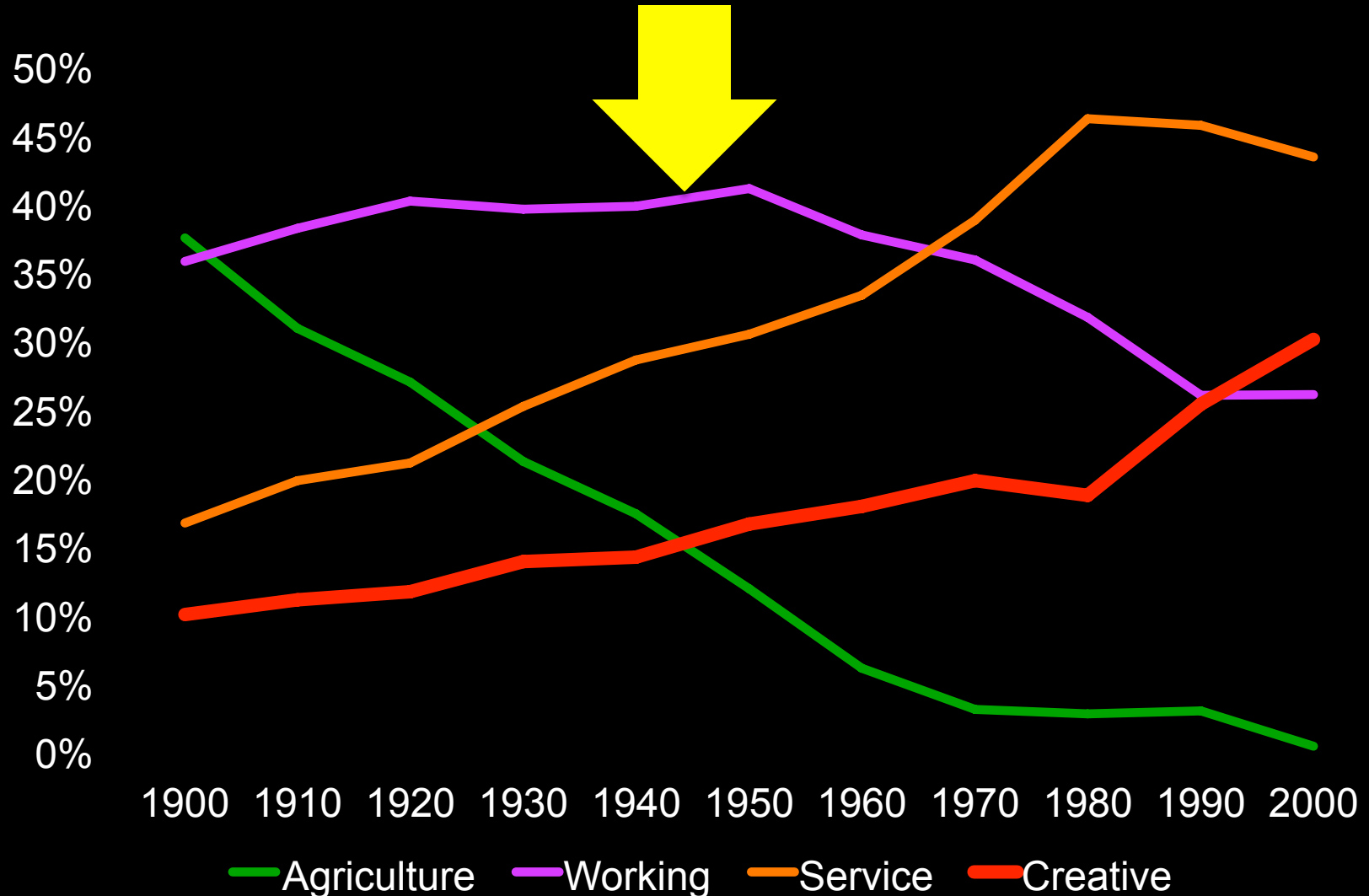
Kentucky Workforce Projections, 2006-2016



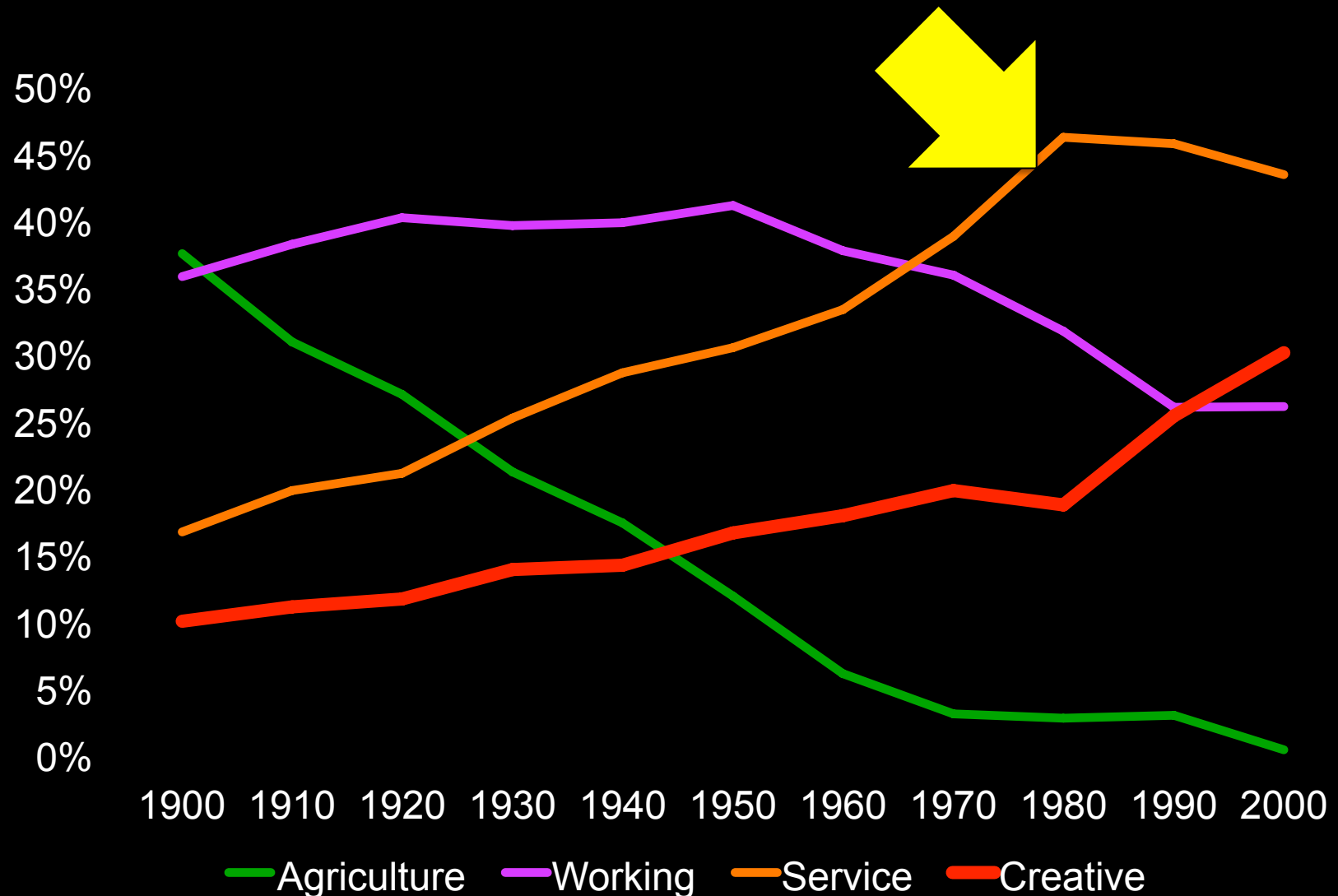
Growth of the creative class



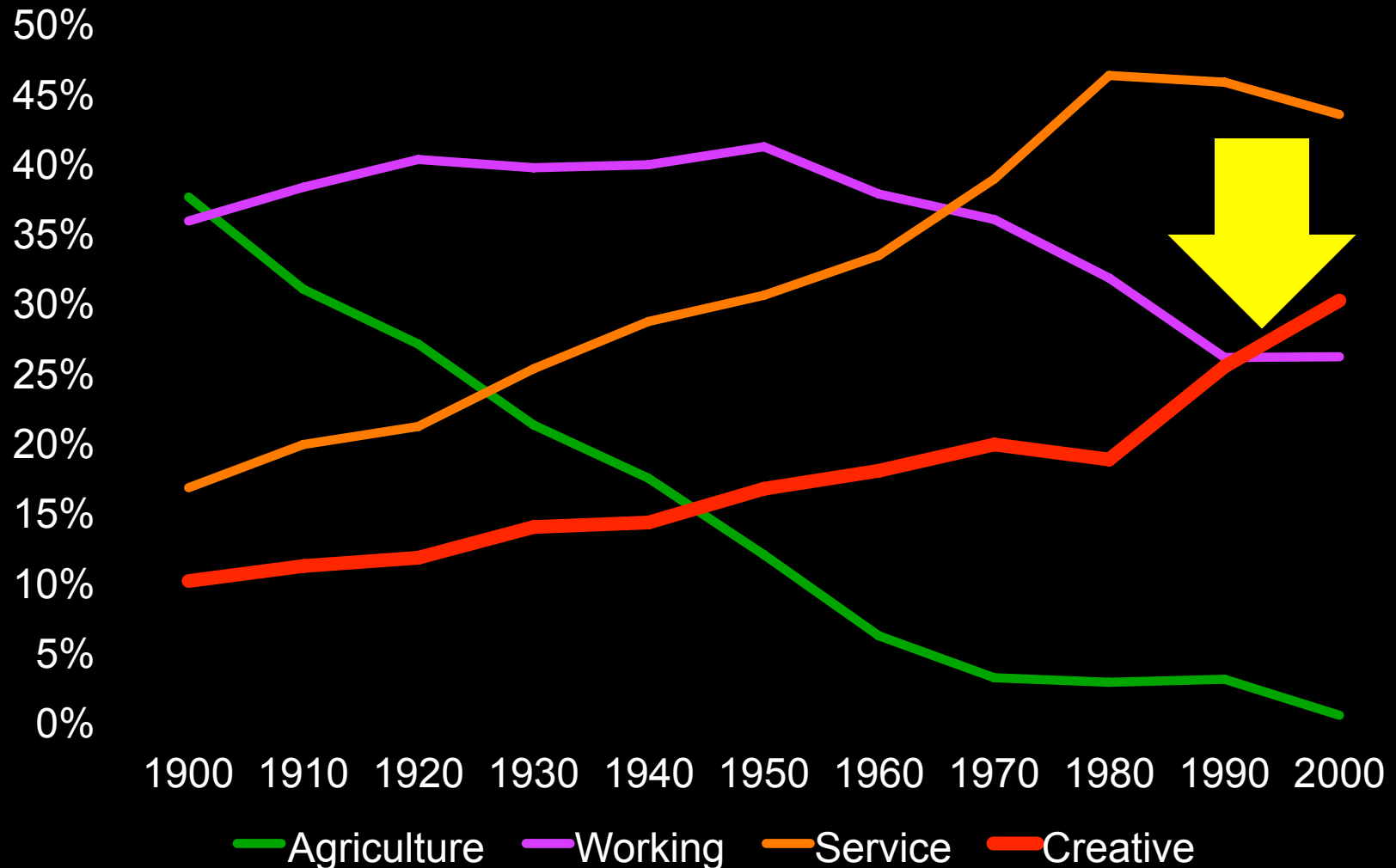
Growth of the creative class



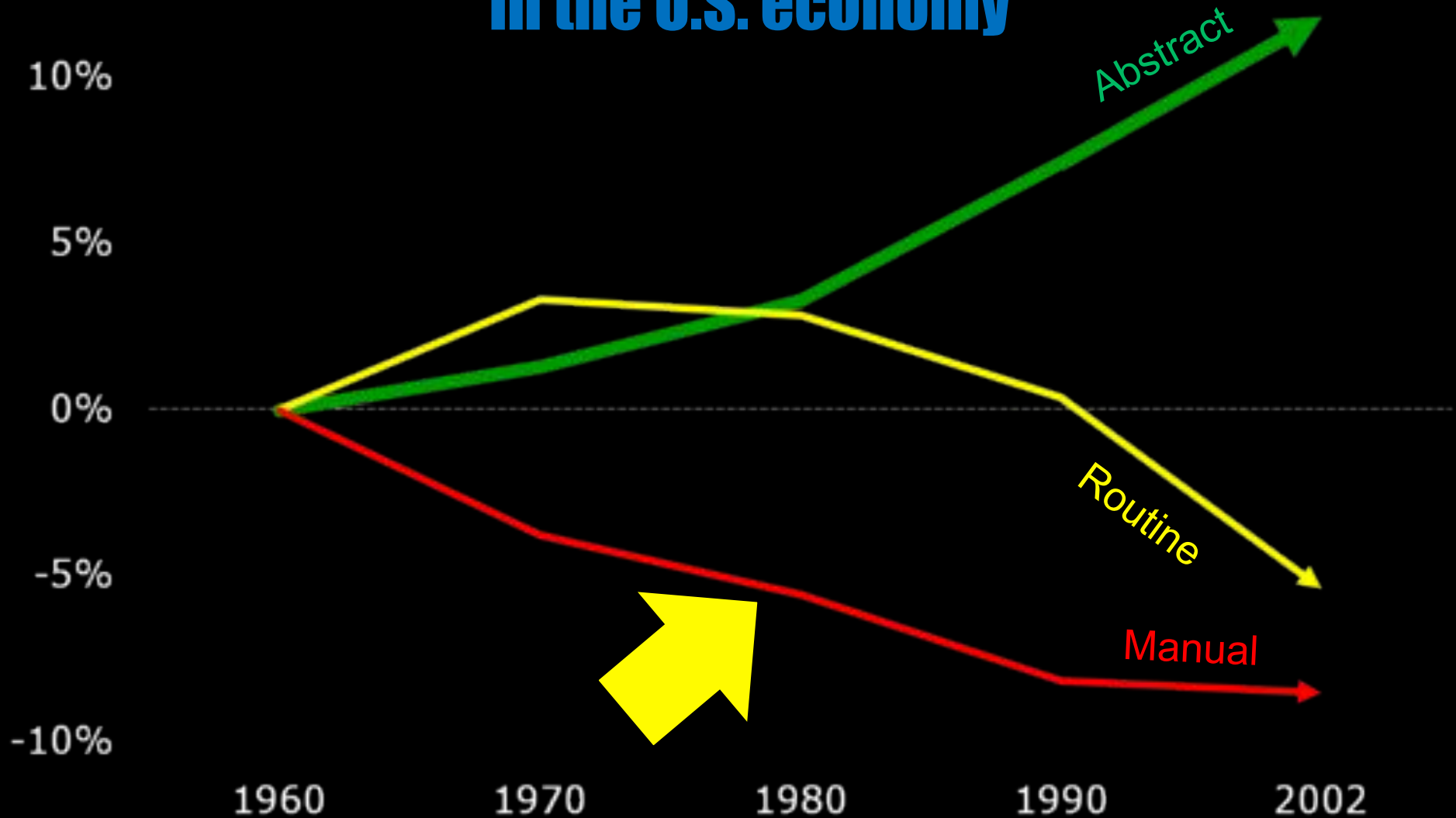
Growth of the creative class



Growth of the creative class

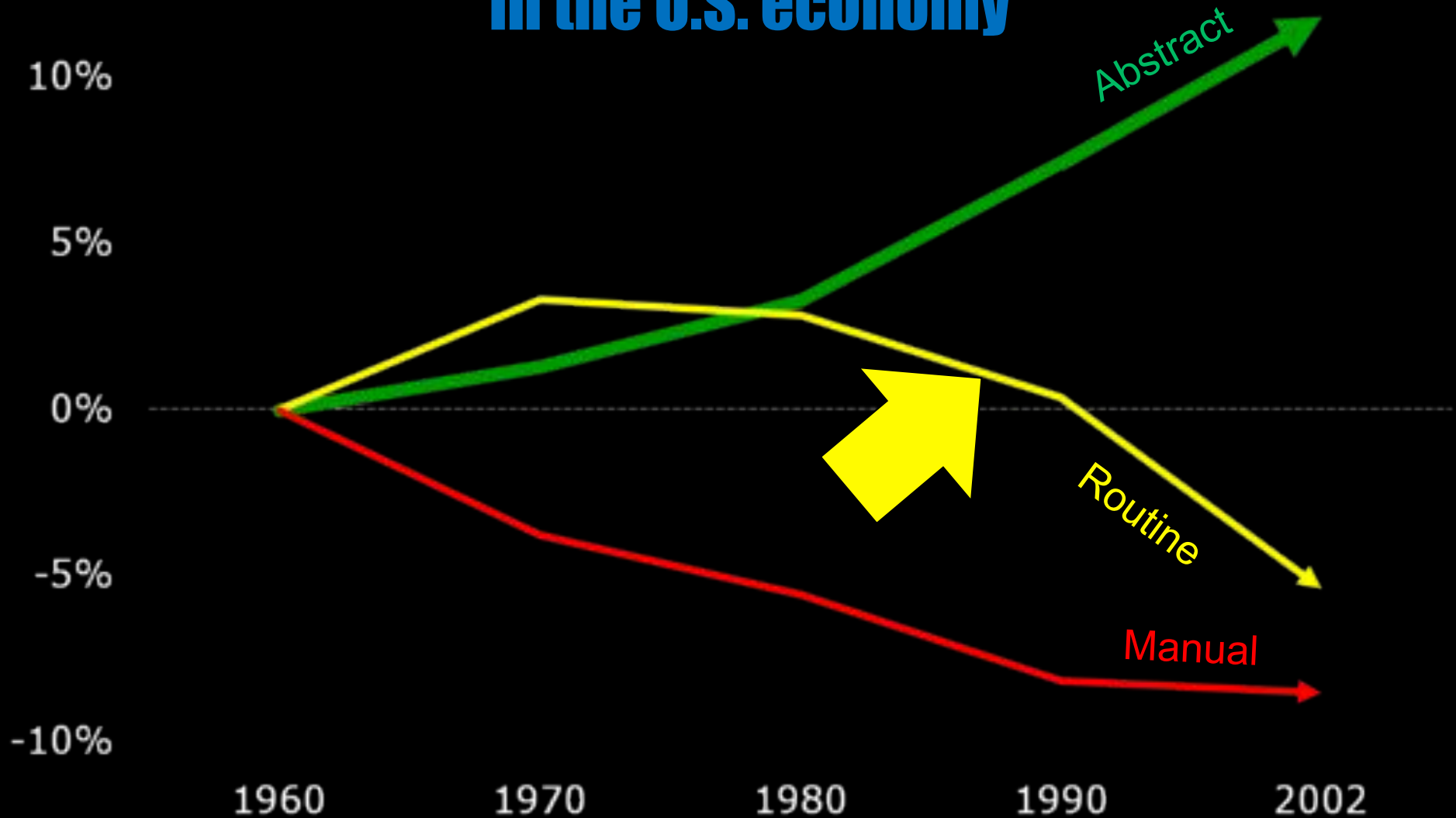


Percentile change in importance of tasks in the U.S. economy



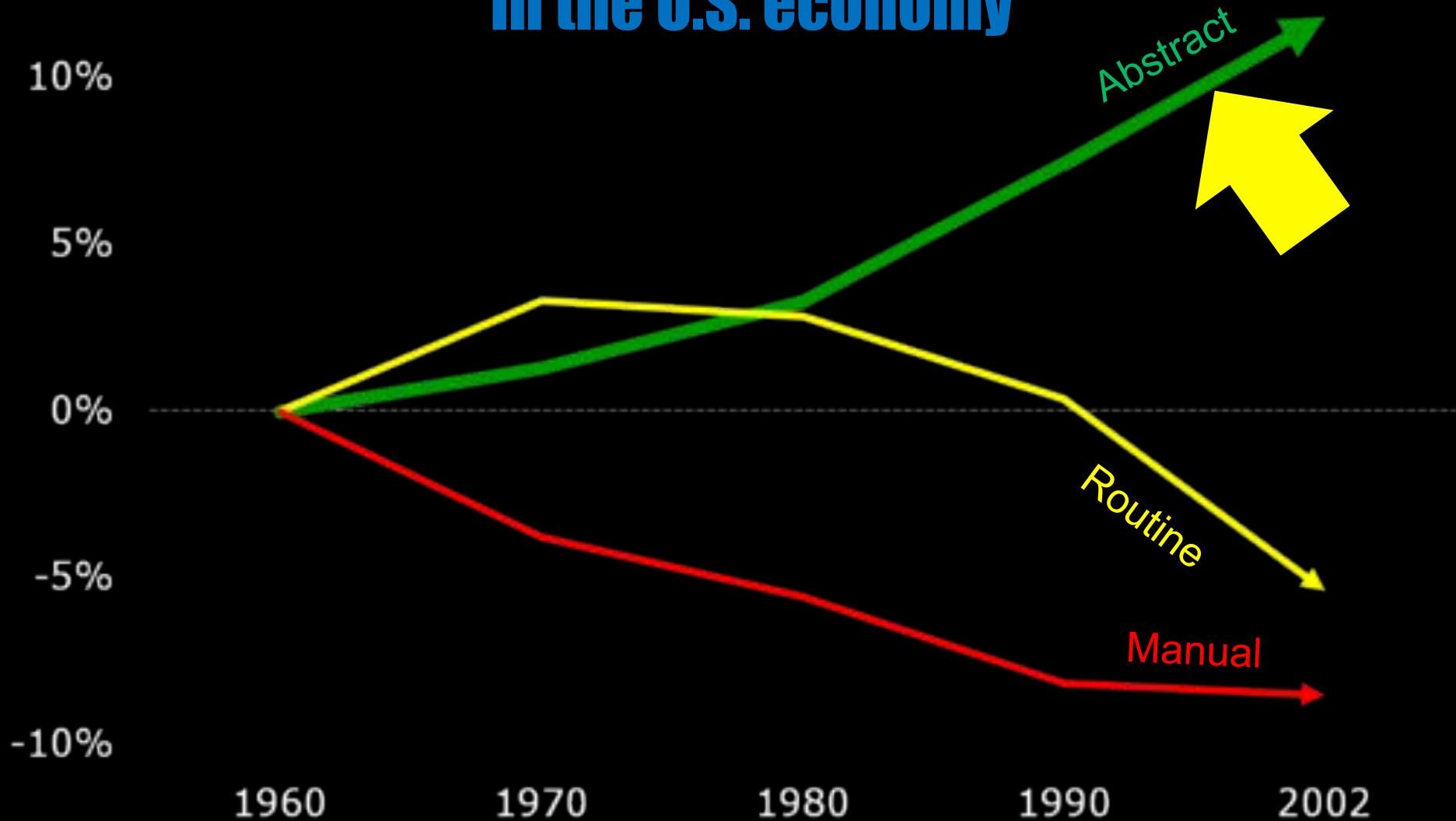
Autor, D., Levy, F., & Murnane, R. J. (2003). The skill content of recent technological change: An empirical exploration. *Quarterly Journal of Economics* 118, 4. [updated, D. Autor, 2008]

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PROTOTYPICAL U.S. INDUSTRY

in 10 years if all goes well



< Plea >



We can do big things ...

... if we want to

... if we share a vision

... if we can collaborate together





VISION 2020



what is going to be our impact?







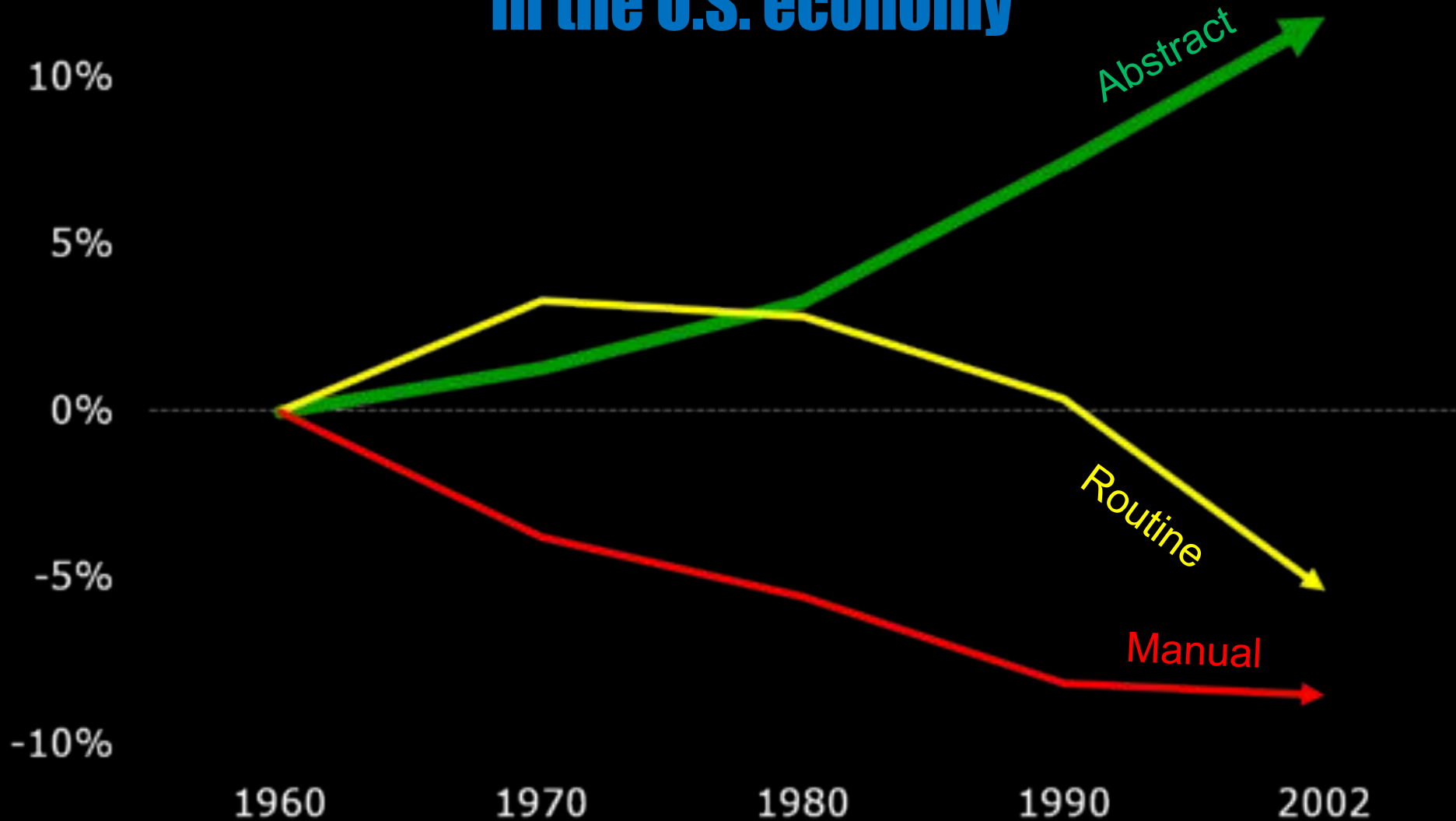
If we teach
today's
students as
we taught
yesterday's,
we rob them
of tomorrow.

John Dewey





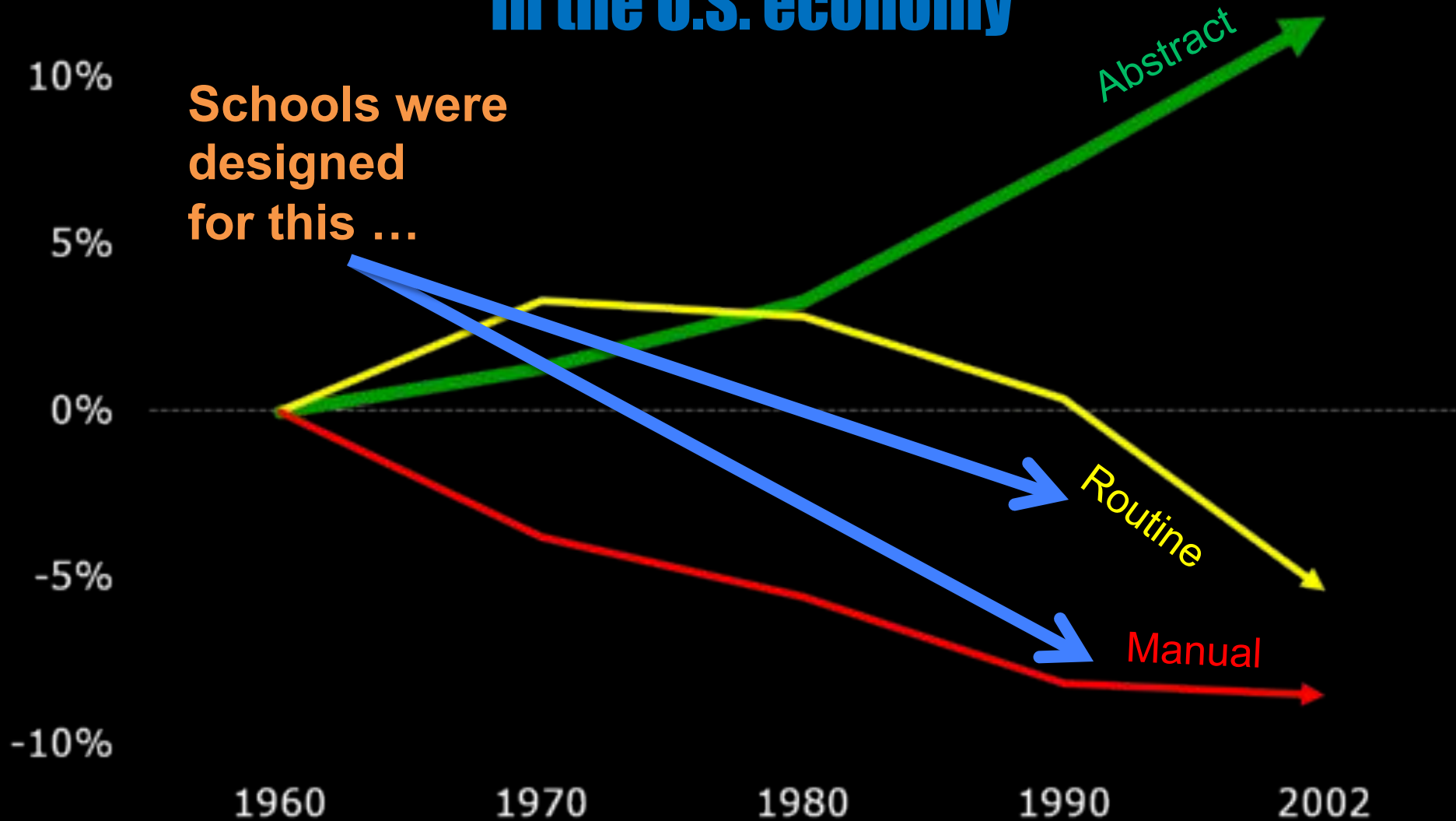
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Percentile change in importance of tasks in the U.S. economy

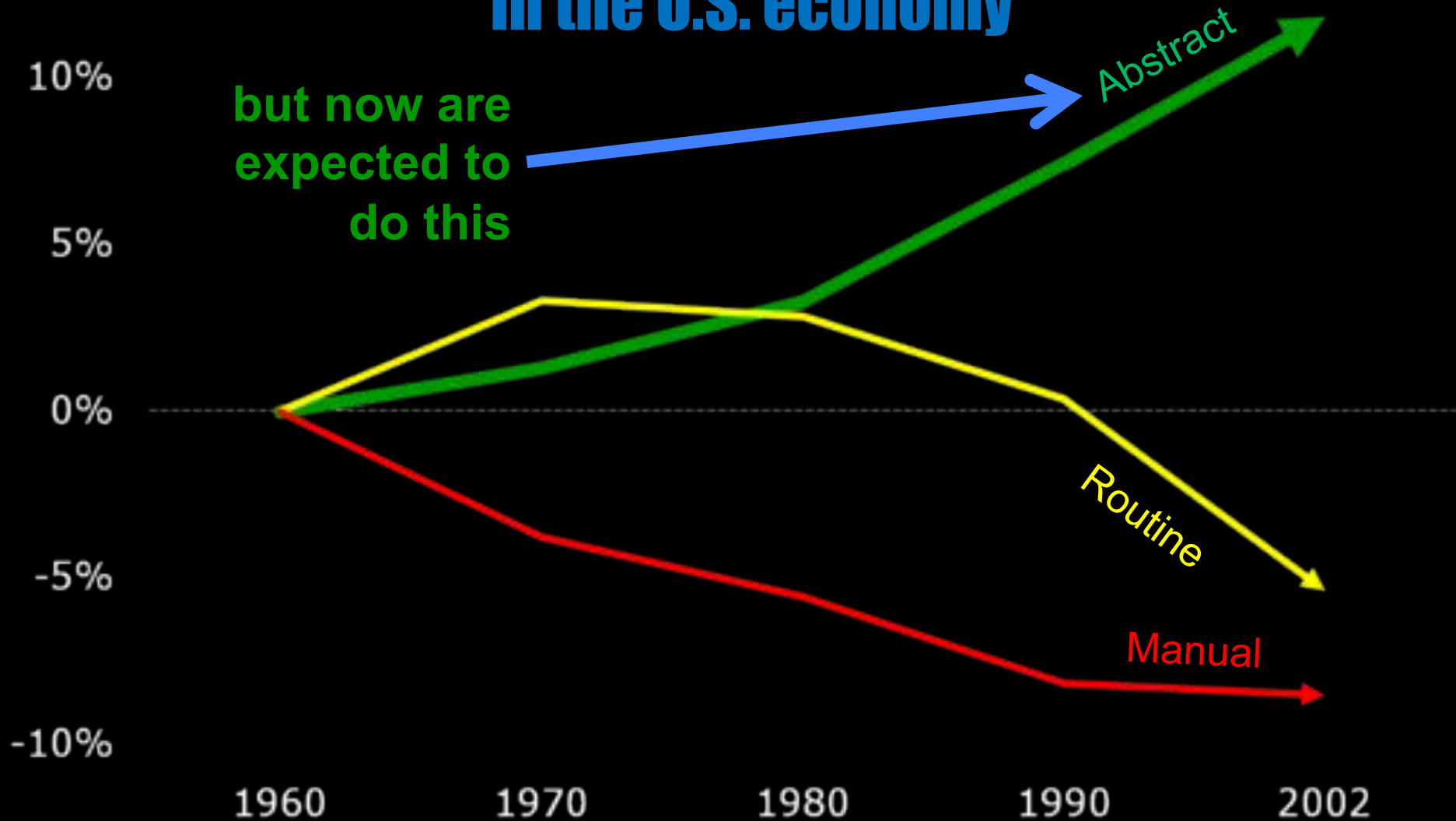
Schools were designed for this ...



Autor, D., Levy, F., & Murnane, R. J. (2003). The skill content of recent technological change: An empirical exploration. *Quarterly Journal of Economics* 118, 4. [updated, D. Autor, 2008]

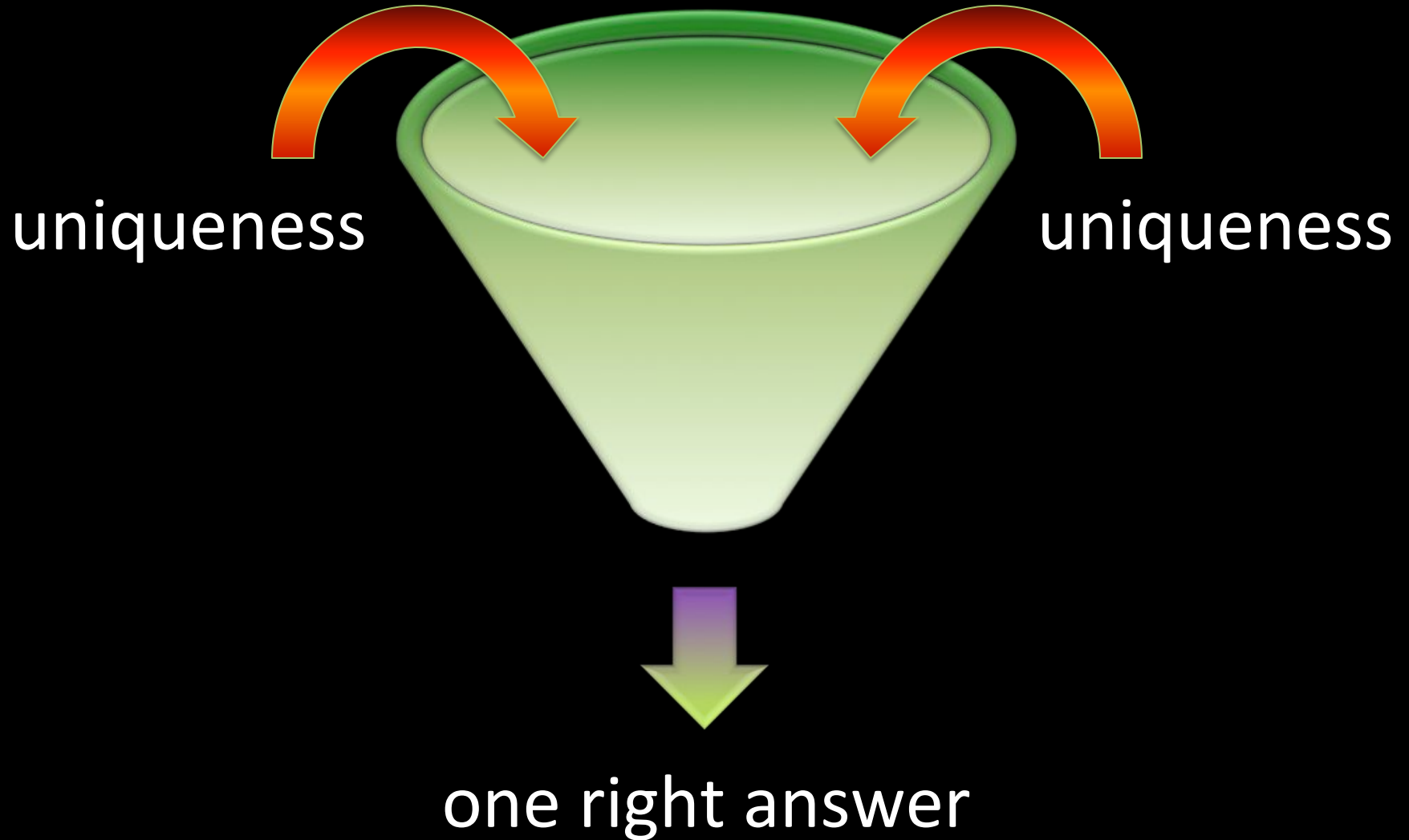
Percentile change in importance of tasks in the U.S. economy

but now are
expected to
do this



Autor, D., Levy, F., & Murnane, R. J. (2003). The skill content of recent technological change: An empirical exploration. *Quarterly Journal of Economics* 118, 4. [updated, D. Autor, 2008]

What we have right now



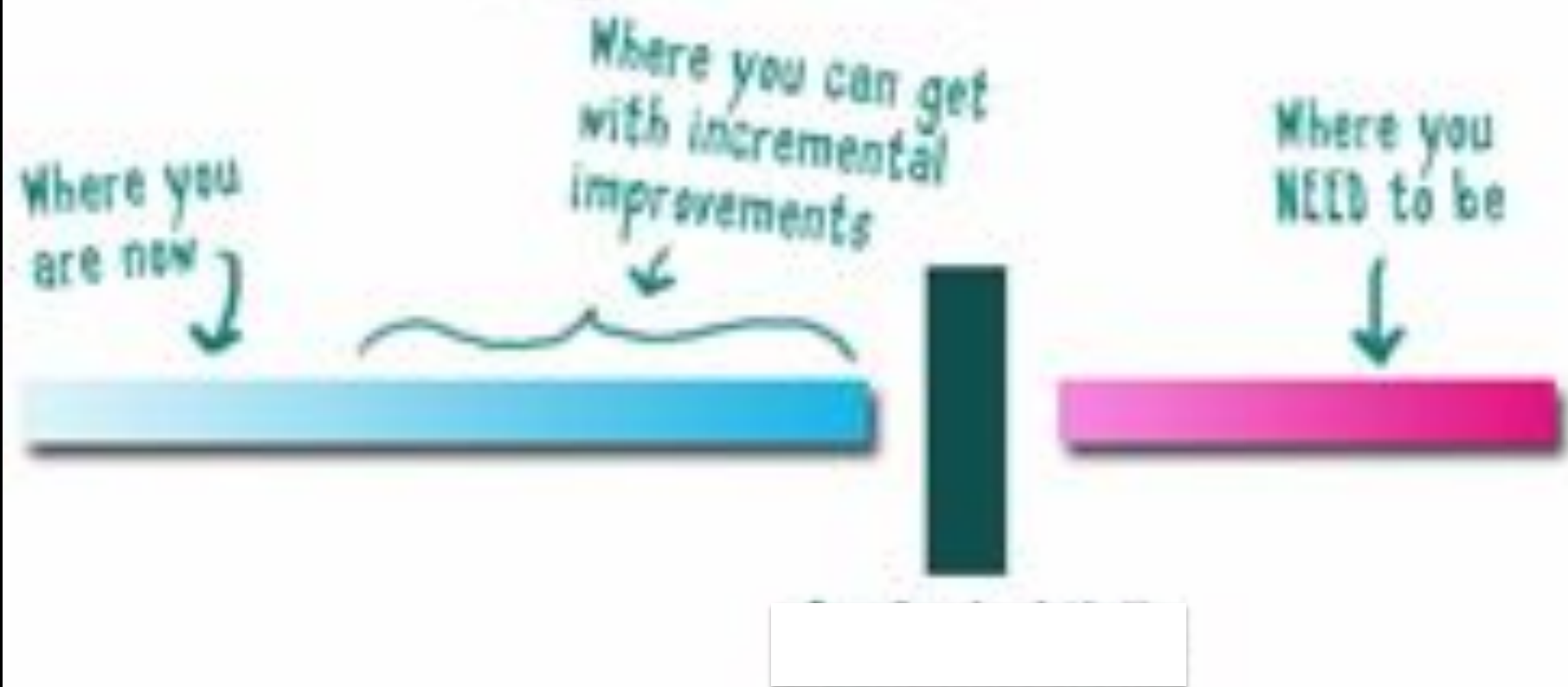
DALE'S FOURTH-GRADE
EDUCATION PAYS OFF.

THE JOB YOU ARE
APPLYING FOR WILL
REQUIRE YOU TO KNOW
LONG DIVISION, STATE
CAPITALS AND CURSIVE
WRITING.



What are we going to ask on our tests, when our students are walking in with Google in their pocket? Are they going to be better questions than we ask today? David Warlick

Incremental vs. revolutionary improvements...

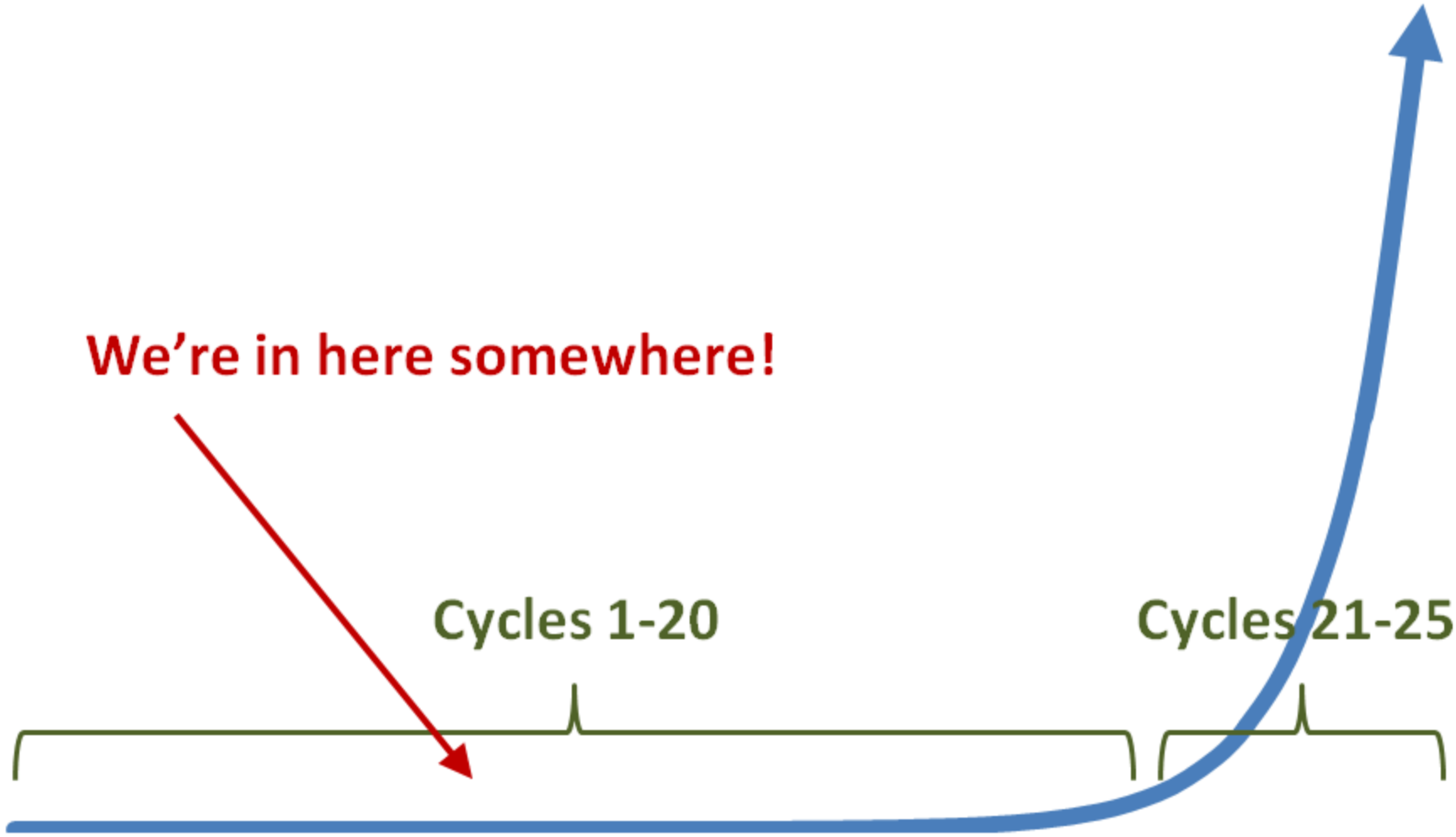


We're in here somewhere!

Cycles 1-20

Cycles 21-25

Time



We're moving this direction!



Cycles 1-20

Cycles 21-25



Time

The people in charge
of leading school
organizations into the
21st century ...



often are the
least knowledgeable
about the 21st century.





www.schooltechleadership.org

Directorate:



Dr. John Nash



Dr. Justin Bathon



Dr. Jayson Richards



Dr. Scott McLeod

Activities Overview

- Research
 - Books
 - Peer-Reviewed Articles
 - Surveys
 - Grants
- Teaching
 - School Technology Leadership Program
 - Professional Development Network
 - School Data Tutorials
- Engagement
 - Blogging Network
 - YouTube Videos
 - LEA & SEA Support
 - University Service

**30,000 +
Daily Blog Subscribers**



**40,000,000 +
YouTube Views**



dangerously ! irrelevant
TECHNOLOGY, LEADERSHIP, AND THE FUTURE OF SCHOOLS

Home | Leading Principals | Contributors (A-Z) | Contributors (C-Z) | Archives | About

Connected Principals | Shared views on education from a group of peers

Educational Games Research
Research and discussion concerning instructional video games



School Finance 101
Data and thoughts on public and private school funding in the U.S.

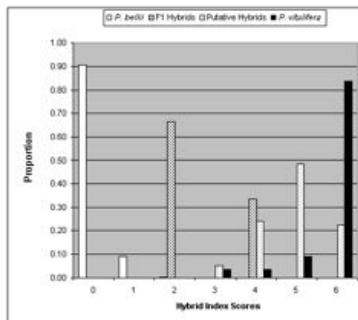
Virtual School Meanderings



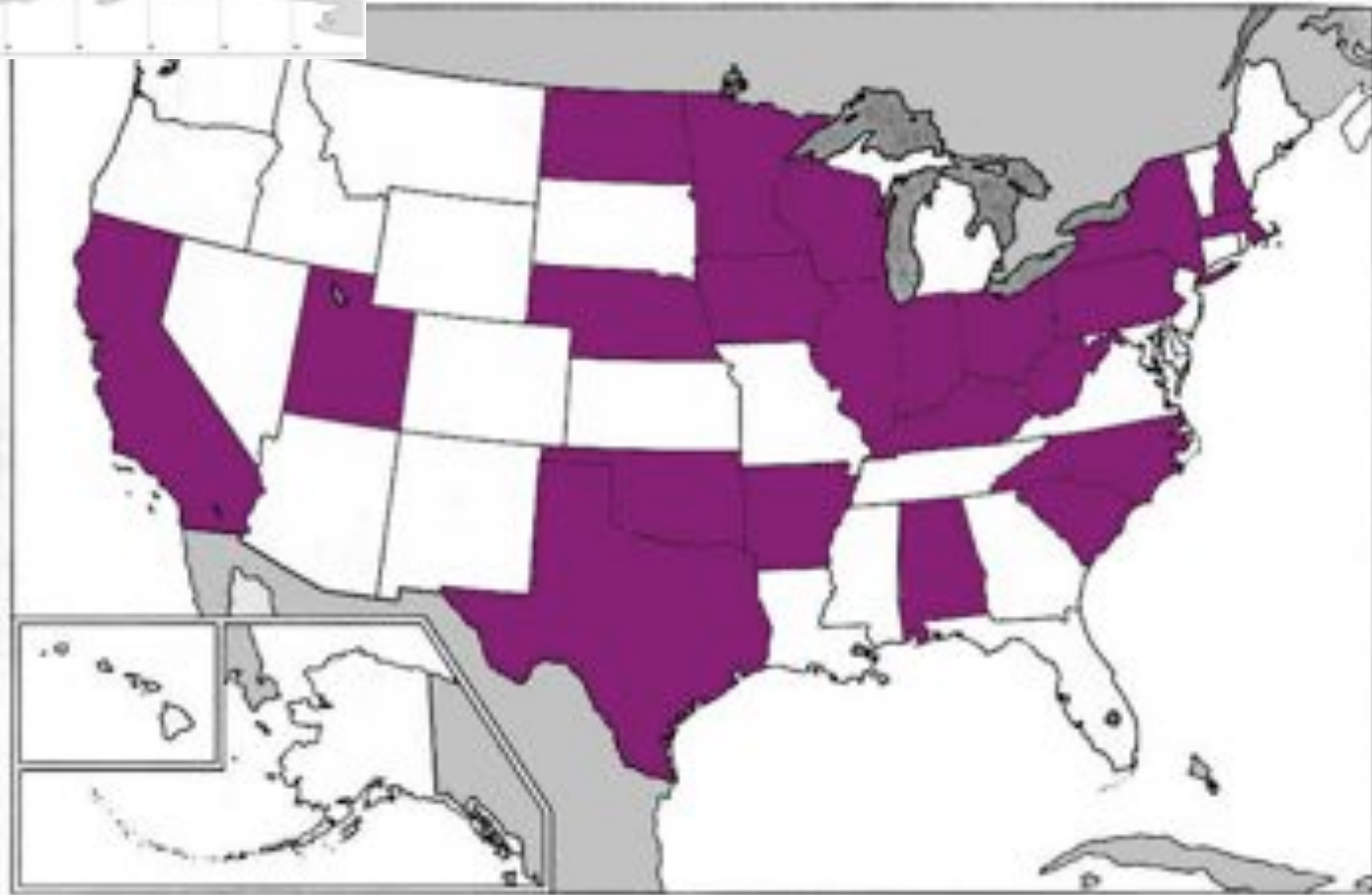
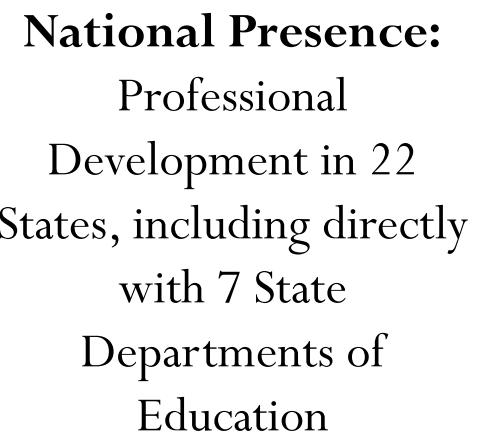
**400 +
Refereed or Invited
Presentations**



**\$6,000,000 +
External Funding &
Research
Participation**



**10,000 +
Twitter Followers**



Iowa 1 to 1 Laptop Deployment: 2010-2011 School Year



School Year	1-1 Schools
2008-09	5
2009-10	15
2010-11	45
2011-12	125 (anticipated)

School Technology Leadership Programs at the University of Kentucky

Program & Degree	Details (subject to change)
School Technology Leadership Graduate Certification Program	15 credit hours in 5 courses based on the NETS-A Standards. Fully online.
School Technology Leadership Masters or Ed.S. Degree	33 credit hours incorporates 5 core School Technology Leadership courses. Ed.S. is an option for people with an existing Masters degree. Fully online. Completed in 2 years.
Interdisciplinary Ph.D. Program in Educational Sciences with a focus in School Technology Leadership	42 credit hours incorporates 5 core School Technology Leadership courses. Courses are online with up to 5 summer meetings in Lexington, KY. Transfer in up to 9 credits!

PD Category	Audience	Typical Format
The World Has Changed	Leaders: Superintendents , Principals, Chief Information Officers	1-3 Hour Workshop
Technology Leadership	Leaders: Superintendents , Principals, Chief Information Officers	2 Day, Recurring with follow up
Technology Boot Camp	Leaders & Teachers	Day and a half, nonrecurring
One-to-One	Leadership Teams in 1-1 Districts	Typical conference format (summer institute); In-district training also available

Buckle Up
Next Million Miles



<http://bit.ly/stlmalaya>